

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: April 27, 2005, 14:45:41 ; Search time 122 Seconds

(without alignments)
 88.765 Million cell updates/sec

Title: US-10-088-417A-1

Perfect score: 132

Sequence: 1 KIAALKQKIASLKGIDALEYENDALEQ 28

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105632 seqs, 386760381 residues

Total number of hits satisfying chosen parameters:

794064

Minimum DB seq length: 0
 Maximum DB seq length: 28

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : A_Geneseq_16Dec04:*

1: geneseqp1900s:*

2: geneseqp1900s:*

3: geneseqp2000s:*

4: geneseqp2001s:*

5: geneseqp2002s:*

6: geneseqp2003as:*

7: geneseqp2003bs:*

8: geneseqp2004s:*

26 51 38.6 28 4 AAB50879 Integrin
 27 51 38.6 28 4 AAB59138 Alpha-hel
 28 50 37.9 23 3 AAB08388 Peptide u
 Ada00699 Protein m
 Aab74340 Peptide C
 Aaw11601 Lactam br
 Aab21683 Coiled co
 Add93317 Coiled co
 Aar31799 SSP4 Poly
 Aaw11604 Generic 1
 Abr84735 DE novo d
 Aaw71415 Peptide F
 Aaw71416 Peptide F
 Aaw80531 Bact-shee
 Aaw80532 Peptide h
 Aaw71424 Peptide h
 AAG65530 Antimicro
 Aab21684 Coiled co
 Add93318 Coiled co
 Abg78944 Human bre

ALIGNMENTS

RESULT 1
 AAB74343 standard: peptide; 28 AA.

ID XX AAB74343;
 XX AC AAB74343;
 XX DT 02-JUL-2001 (first entry)
 XX XX Peptide SAF-pIC.
 XX KW Atomic Force Microscopy; AFM.
 XX OS Unidentified.
 XX XX WO200121646-A1.
 XX PD 29-MAR-2001.
 XX PF 18-SEP-2000; 2000WO-GB003576.
 XX XX PR 17-SEP-1999; 99GB-00022013.
 XX PA (UYSU-) UNIV SUSSEX.
 XX PI Woolfson DN, Walshaw J, Pandya NJ, Colyer J;
 XX XX DR WPI; 2001-335468/35.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	132	100.0	28	4 AAB74343	Aab74343 Peptide S
2	132	100.0	28	4 AAB74351	Aab74351 Peptide S
3	132	100.0	28	8 ADR41436	Adm41436 Self-base
4	129	97.7	28	4 AAB74341	Aab74341 Peptide S
5	85	64.4	28	8 AAB74342	Aab74342 Peptide S
6	85	64.4	28	8 ADR41438	Adm41438 Self-base
7	82	62.1	28	4 AAB74345	Aab74345 Peptide S
8	80	60.6	27	4 ADR41437	Adm41437 Self-base
9	76	57.6	28	4 AAB74348	Aab74348 Peptide S
10	76	57.6	28	4 AAB74356	Aab74356 Peptide S
11	76	57.6	28	4 AAB74352	Aab74352 Peptide S
12	75	56.8	28	4 AAB74346	Aab74346 Peptide S
13	75	56.8	28	4 AAB74347	Aab74347 Peptide S
14	74	56.1	28	4 AAB74349	Aab74349 Peptide S
15	70	53.0	28	4 AAB74355	Aab74355 Peptide u
16	70	53.0	28	4 AAB74350	Aab74350 Peptide S
17	57	43.2	28	7 ABR84737	DE novo d
18	54	40.9	28	7 ABR84736	DE novo d
19	52	39.4	17	4 AAB74344	Peptide C
20	52	39.4	24	5 AAE18799	Strep pep
21	52	39.4	24	5 AAE18797	Strep pep
22	52	39.4	25	3 AAY95958	Coiled-co
23	52	39.4	25	3 AAB08381	Peptide u
24	52	39.4	25	3 AAB08382	Peptide u
25	52	39.4	27	5 AAE18788	CVX0270 p

Query Match 100.0%; Score 132; DB 4; Length 28;
 Best Local Similarity 100.0%; Pred. No. 2.7e-11;
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KIAALKQKIASLKGIDALEYENDALEQ 28

Db 1 KIAALKQKIASLKGIDALEYENDALEQ 28

RESULT 2

AAB74351 standard; peptide; 28 AA.

XX

AC AAB74351;

XX DT 02-JUL-2001 (first entry)

DB Peptide SAF-p1.

XX Atomic Force Microscopy; AFM.

XX Unidentified.

XX OS WO200121646-A1.

XX PD 29-MAR-2001.

XX PP 18-SEP-2000; 2000WO-GB003576.

XX PR 17-SEP-1999; 99GB-00022013.

XX (UYSU-) UNIV SUSSEX.

XX P1 Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

XX DR WPI; 2001-335468/35.

XX SQ New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

XX PS Claim 16; Page 26; 45PP; English.

XX PR The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p1.

XX SQ Sequence 28 AA;

Query Match 100.0%; Score 132; DB 4; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.7e-11;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Gaps 0;

XX Qy 1 KIAALKQKIASLKGIDALEYENDALEQ 28

Db 1 KIAALKQKIASLKGIDALEYENDALEQ 28

XX DE Self-assembling peptide fibre SAF-p1.

XX KW Fibre-shaping peptide; self-assembling peptide.

XX OS Synthetic.

XX PH Key Location/Qualifiers

XX Modified-site 1 /note= "N-terminal NH3 moiety"

XX FT PT Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

XX PN WO2004022584-A1.

XX XX PD 18-MAR-2004.

XX XX PF 08-SEP-2003; 2000WO-GB003900.

XX XX PR 06-SEP-2002; 2002GB-00020805.

XX XX PA (UYSU-) UNIV SUSSEX.

XX PI Woolfson D, Radnoff MG;

XX DR WPI; 2004-248444/23.

XX PT Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.

XX PS Example 30; Page 22; 37pp; English.

XX CC The present sequence is that of self-assembling peptide fibre (SAF) SAF-p1. The invention relates to fibre-shaping (FISH) peptides ADM41434-ADM41435 that are capable of interacting with SAFs to form protein structures. The FISH peptides allow morphological changes (branches, structures, kinks and bends) to be made to protein fibres comprising SAFs. By incorporating such morphological changes in the protein fibres, it is possible to generate a variety of (nanoscale) protein structures, such as assemblies in general, including matrix, filter, network, grid and scaffold structures. Use of the protein structures in the purification of biological fluids, for assembling cells for cell and tissue engineering, and in surface engineering procedures is claimed.

XX SQ Sequence 28 AA;

Query Match 100.0%; Score 132; DB 8; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.7e-11;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Gaps 0;

XX Qy 1 KIAALKQKIASLKGIDALEYENDALEQ 28

Db 1 KIAALKQKIASLKGIDALEYENDALEQ 28

XX DE Peptide SAF-p1A.

XX KW Atomic Force Microscopy; AFM.

XX OS Unidentified.

XX PN WO200121646-A1.

XX PD 29-MAR-2001.

XX AC AAB74341;

XX DT 02-JUL-2001 (first entry)

XX PR 18-SEP-2000; 2000WO-GB003576.

XX PR 17-SEP-1999; 99GB-00022013.

XX PA (UYSU-) UNIV SUSSEX.

XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

XX DR WPI; 2001-335468/35.

XX PT New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

XX Claim 16; Page 26; 45pp; English.

XX The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p1A

XX Sequence 28 AA;

Query Match 97.7%; Score 129; DB 4; Length 28;

Best Local Similarity 96.4%; Pred. No. 7e-11; Mismatches 0; Indels 0; Gaps 0;

Matches 27; Conservative 1; OS

Qy 1 KIAALKQKIAASIKQEIDLEYENDALEQ 28

Db 1 KIAALKQKIAALKQEIDLEYENDALEQ 28

RESULT 5

AB74342 ID AAB74342 standard; peptide; 28 AA.

XX AC AAB74342;

XX DT 02-JUL-2001 (first entry)

XX DB Peptide SAF-p1B.

XX Atomic Force Microscopy; AFM.

XX Unidentified.

XX PN WO2001211646-A1.

XX XX 29-MAR-2001.

XX PR 18-SEP-2000; 2000WO-GB003576.

XX PR 17-SEP-1999; 99GB-00022013.

XX (UYSU-) UNIV SUSSEX.

XX PA

XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

XX PI

XX WPI: 2001-335468/35.

XX DR

XX PT

XX PT

XX Disclosure; Page 9; 45pp; English.

XX OS

XX The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p1B

XX Sequence 28 AA;

Query Match 97.7%; Score 129; DB 4; Length 28;

Best Local Similarity 96.4%; Pred. No. 7e-11; Mismatches 0; Indels 0; Gaps 0;

Matches 27; Conservative 1; OS

Qy 1 KIAALKQKIAASIKQEIDLEYENDALEQ 28

Db 1 KIAALKQKIAALKQEIDLEYENDALEQ 28

RESULT 6

ADM41438

XX ID ADM41438 standard; peptide; 28 AA.

XX AC ADM41438;

XX DT 03-JUN-2004 (first entry)

XX Self-assembling peptide fibre SAF-p2a.

XX DE DE

XX KW Fibre-shaping peptide; self-assembling peptide.

XX OS Synthetic.

XX XX

XX Key FH

XX Modified-site FT

XX /note= "N-terminal NH3 moiety"

XX PN WO2004022584-A1.

XX PD 18-MAR-2004.

XX PP 08-SEP-2003; 2003WO-GB003900.

XX PR 06-SEP-2003; 2002GB-00020805.

XX XX

XX PA (UYSU-) UNIV SUSSEX.

XX XX

XX PI Woolfson D, Ryadnov MG;

XX DR WPI: 2004-248444/23.

XX XX

XX Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.

XX XX

XX Example 36; Page 22; 37pp; English.

XX XX

XX The present sequence is that of self-assembling peptide fibre (SAF) SAF-p2a. The invention relates to fibre-shaping (FISH) peptides ADM41434-ADM41435 that are capable of interacting with SAFs to form protein structures. The FISH peptides allow morphological changes (branches, splits, kinks and bends) to be made to protein fibres comprising SAFs. By incorporating such morphological changes in the protein fibres, it is possible to generate a variety of (nanoscale) protein structures, such as assemblies in general, including matrix, filter, network, grid and scaffold structures. Use of the protein structures in the purification of biological fluids, for assembling cells for cell and tissue engineering, and in surface engineering procedures is claimed.

XX XX

XX Sequence 28 AA;

XX XX

XX Query Match 64.4%; Score 85; DB 8; Length 28;

XX Best Local Similarity 75.0%; Pred. No. 9.5e-05;

XX Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

XX DB

XX XX

XX Qy 1 KIAALKQKIAASIKQEIDLEYENDALEQ 28

XX Db 1 KIRRLQKQNLKQEIDLEYENDALEQ 28

RESULT 7

AAB74345

ID AAB74345 standard; peptide; 28 AA.

XX AC AAB74345;

XX DT 02-JUL-2001 (first entry)

XX Peptide SAF-p2A.

XX XX

XX Atomic Force Microscopy; AFM.

XX OS Unidentified.

XX XX

PN WO200121646-A1.
 XX PD 29-MAR-2001.
 XX PP 18-SEP-2000; 2000WO-GB003576.
 XX PR 17-SEP-1999; 99GB-00022013.
 XX PA (UYSU-) UNIV SUSSEX.
 XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
 XX DR WPI; 2001-335468/35.
 XX PR New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
 XX Disclosure; Page 9; 45pp; English.
 XX The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2A
 XX Sequence 28 AA;
 Query Match 62.1%; Score 82; DB 4; Length 28;
 Best Local Similarity 75.0%; Pred. No. 0.00025;
 Matches 21; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
 XX QW 1 KIAALKOKIASLQKQBDALEYENDALEQ 28
 DB 1 KISALKWKNASLQKQIALEQTAALEQ 28
 XX
 RESULT 8
 ADM41437
 ID ADM41437 standard; peptide; 27 AA.
 XX AC ADM41437;
 XX DT 03-JUN-2004 (first entry)
 XX DE Self-assembling peptide fibre (SAF).
 XX KW Fibre-shaping peptide; self-assembling peptide.
 XX OS Synthetic.
 XX FH Key
 FT Modified-site 1
 FT /note= "N-terminal NH3 moiety"
 XX PN WO2004022584-A1.
 XX PD 18-MAR-2004.
 XX PP 08-SEP-2003; 2003WO-GB003900.
 XX PR 06-SEP-2002; 2002GB-00020805.
 XX PA (UYSU-) UNIV SUSSEX.
 XX PI Woolfson D, Ryadnov MG;
 XX DR WPI; 2004-248444/23.
 XX PR Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.

PS Example 30; Page 22; 37pp; English.
 XX CC The present sequence is that of a self-assembling peptide fibre (SAF).
 CC The invention relates to fibre-shaping (FISH) Peptides ADM41434-ADM41435.
 CC The invention relates to fibre-shaping with SAFs to form protein structures. The
 CC that are capable of interacting with SAFs to form protein structures. The
 CC that are capable of morphological changes (branches, splits, kinks and
 CC bends) to be made to protein fibres comprising SAFs. By incorporating
 CC such morphological changes in the protein fibres, it is possible to
 CC generate a variety of (nanoscale) protein structures, such as assemblies
 CC in general, including matrix, filter, network, grid and scaffold
 CC structures. Use of the protein structures in the purification of
 CC biological fluids, for assembling cells for cell and tissue engineering,
 CC and in surface engineering procedures is claimed.
 XX SQ Sequence 27 AA;
 Query Match 60.6%; Score 80; DB 8; Length 27;
 Best Local Similarity 74.1%; Pred. No. 0.00045;
 Matches 20; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 XX QY 2 TAALKOKIASLQKQBDALEYENDALEQ 28
 DB 1 IRRLKQDNARLKQEFAALEYEIALEQ 27

RESULT 9
 AAB74348
 ID AAB74348 standard; peptide; 28 AA.
 XX AC AAB74348;
 XX DT 02-JUL-2001 (first entry)
 XX DB Peptide SAF-p2D.
 XX KW Atomic Force Microscopy; AFM.
 XX OS Unidentified.
 XX PN WO200121646-A1.
 XX PD 29-MAR-2001.
 XX PP 18-SEP-2000; 2000WO-GB003576.
 XX PR 17-SEP-1999; 99GB-00022013.
 XX PA (UYSU-) UNIV SUSSEX.
 XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
 XX DR WPI; 2001-335468/35.
 XX PN The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2D
 XX SQ Sequence 28 AA;
 Query Match 57.6%; Score 76; DB 4; Length 28;
 Best Local Similarity 71.4%; Pred. No. 0.0017;
 Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 XX QY 1 KIAALKOKIASLQKQBDALEYENDALEQ 28

1 KIRALKAKNAHLKOEIAALEOELIAALEO 28

2

RESULT 10
AAB74356
ID AAB74356 standard; peptide; 28 AA.

20

KASSINI MINI (-11511)

MINN EMISSARI (1851-1855)

20

2

2

17-SEP-1999; 99GB-00022013.
 (URSU-) UNIV SUSSEX.
 Woolfson DN, Walkshaw J, Pandya MJ, Colyer J;
 KX KX KX KX

六

1 KIRALKAUNAHLKQEIAALEQIALEQ 28

六

PT New protein structures with peptide monomer units, useful in Atomic Force
Microscopy, purifying biological fluids, promoting tissue repair and
tissue engineering, or constructing nanoscale molecular sieves.
XX Disclosure; Fig 8; 45pp; English.

2

ATOMIC FORCE MICROSCOPY; AFM.

2

2

P1

XX AAB74352 standard; peptide; 28 AA.
XX ID AAB74352 peptide; 28 AA.
XX
XX AAB74352;
XX
XX 02-JUL-2001 (first entry)
XX Peptide SAF-p2.
XX
XX Atomic Force Microscopy; AFM.
XX
XX Unidentified.
XX
XX WO200121646-A1.
XX 29-MAR-2001.
XX
XX 18-SEP-2000: 2000000-CB0003575
XX Sequence 28 AA.

Query Match 56.8%; Score 75; DB 4; Length 28;
 Best Local Similarity 71.4%; Pred. No. 0.0024; Indels 0; Gaps 0;
 Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 Unidentified.

XX WO200121646-A1.

XX PD 29-MAR-2001.

XX PF 18-SEP-2000; 2000WO-GB003576.

XX PR 17-SEP-1999; 99GB-00022013.

XX PA (UYSU-) UNIV SUSSEX.

XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

XX WPI; 2001-335468/35.

XX DR

XX PT New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

XX PT

XX Disclosure: Page 9; 45pp; English.

XX XX The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2E

XX PS

XX Sequence 28 AA;

Query Match 56.1%; Score 74; DB 4; Length 28;
 Best Local Similarity 71.4%; Pred. No. 0.0033; Mismatches 0; Indels 0; Gaps 0;
 Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

XX Qy 1 KIAALKQKIASLKGQEDALEYENDALEQ 28

XX Db 1 KIRALKWNNAHLKGQIAALEQEIALEQ 28

XX KW

XX RESULT 15

XX AAB74355 standard; peptide; 28 AA.

XX ID AAB74355 standard; peptide; 28 AA.

XX AC AAB74355;

XX XX 02-JUL-2001 (first entry)

XX XX 02-JUL-2001 (first entry)

XX XX Peptide used to form blunt-ended heterodimers.

XX XX Atomic Force Microscopy; AFM.

XX XX Unidentified.

XX OS

XX WO200121646-A1.

XX PN

XX PD 29-MAR-2001.

XX PR 18-SEP-2000; 2000WO-GB003576.

XX PR 17-SEP-1999; 99GB-00022013.

XX PA (UYSU-) UNIV SUSSEX.

XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

XX WPI; 2001-335468/35.

XX PT New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

XX PT

XX Disclosure: Fig 8; 45pp; English.

XX PS

XX KW

XX RESULT 14

XX AAB74349 standard; peptide; 28 AA.

XX ID AAB74349

XX AC AAB74349;

XX DT 02-JUL-2001 (first entry)

XX XX Peptide SAF-p2E.

XX XX Atomic Force Microscopy; AFM.

The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is a peptide used to form blunt-ended heterodimers.

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Query Match      53.0%; Score 70; DB 4;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 14; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;
Qy      15 EIDALEYENDALEQ 28
Db      1 EIDALEYENDALEQ 14

```

search completed: April 27, 2005, 15:02:15
Job time : 124 secs

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OM protein - protein search, using sw mode!

Run on: April 27, 2005, 15:02:43 ; Search time 89.5 Seconds (without alignments)

104.113 Million cell updates/sec

Title: US-10-088-417A-1

Perfect score: 132

Sequence: 1 KIAALKQKIASLQKEDALEYENDALEQ 28

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1424015 seqs, 332791073 residues

Total number of hits satisfying chosen parameters: 334731

Minimum DB seq length: 0

Maximum DB seq length: 28

Post-processing: Minimum Match 0% Maximum Match 100% Listing First 45 summaries

Database : Published Applications AA:
 1: /cgn2_6/ptodata/2/pubpaas/US07_PUBCOMB.pep:
 2: /cgn2_6/ptodata/2/pubpaas/US07_FCT_NEW_PUB.pep:
 3: /cgn2_6/ptodata/2/pubpaas/US06_NBW_PUB.pep:
 4: /cgn2_6/ptodata/2/pubpaas/US07_NBW_PUB.pep:
 5: /cgn2_6/ptodata/2/pubpaas/BCTUS_PUBCOMB.pep:
 6: /cgn2_6/ptodata/2/pubpaas/US08_NEW_PUB.pep:
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 12: /cgn2_6/ptodata/2/pubpaas/US09_NBW_PUB.pep:
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 20: /cgn2_6/ptodata/2/pubpaas/US60_NBW_PUBCOMB.pep:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB ID	Description
1	57	43.2	28	14	US-10-360-053-23	Sequence 23, Appl
2	54	40.9	28	14	US-10-360-053-22	Sequence 22, Appl
3	52	39.4	27	10	US-09-360-053-22	Sequence 7, Appl
4	51	38.6	28	15	US-09-360-053-22	Sequence 6, Appl
5	51	38.6	28	15	US-09-360-053-22	Sequence 6, Appl
6	50	37.9	23	10	US-10-360-053-22	Sequence 59, Appl
7	46	34.8	24	16	US-10-360-053-22	Sequence 19, Appl
8	46	34.8	24	16	US-10-360-053-22	Sequence 19, Appl
9	46	34.8	24	17	US-10-360-053-22	Sequence 19, Appl
10	45	34.1	28	14	US-10-360-053-22	Sequence 21, Appl
11	44	33.3	24	14	US-10-360-053-22	Sequence 20, Appl
12	44	33.3	24	16	US-10-360-053-22	Sequence 20, Appl
13	44	33.3	24	17	US-10-360-053-22	Sequence 20, Appl

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ALIGMENTS

RESULT US-10-360-053-23

Sequence 23, Application US10360053
 Publication No. US20030170230A1
 GENERAL INFORMATION:
 APPLICANT: Caterer, Nigel
 APPLICANT: Utenthal, Lars O
 APPLICANT: Nielsen, Rasmus W
 TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antipeptides
 TITLE OF INVENTION: Fragments via Antiparallel Heterogeneous Coiled-Coil Peptide Regi
 TITLE OF INVENTION: Thereof
 FILE REFERENCE: IMX-0028
 CURRENT APPLICATION NUMBER: US10/360,053
 CURRENT FILING DATE: 2003-02-05
 PRIORITY: PRT
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: Synthetic
 US-10-360-053-23

Qy 1 KIAALKQKIASLQKEDALE 20
 Db 5 KQAAKTRNEIAAKQETAAIE 24

RESULT 2

GENERAL INFORMATION:
 ; APPLICANT: Cateret, Nigel
 ; APPLICANT: Utenthal, Lars O
 ; APPLICANT: Nielsen, Rasmus W
 ; TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibiotic Peptides
 ; TITLE OF INVENTION: Fragments via Antiparallel Heterogeneous Coiled-Coil Peptide Regi
 ; TITLE OF INVENTION: Thereof
 ; FILE REFERENCE: IMK-0028
 ; CURRENT FILING DATE: 2003-02-05
 ; PRIOR APPLICATION NUMBER: US60/354,376
 ; PRIOR FILING DATE: 2002-02-05
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: PatentIn version 3.1
 SEQ ID NO 21
 LENGTH: 28
 TYPE: PRT
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: Synthetic
 US-10-360-053-21

Query Match 34.1%; Score 45; DB 14; Length 28;
 Best Local Similarity 56.2%; Pred. No. 55;
 Matches 9; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 KIAALKOKIASLKOIDEA 16
 Db 12 EIAAIKDKIAAIKEYI 27

RESULT 11
 US-10-338-083-20
 Sequence 20, Application US/10338083
 Publication No. US20030166559A1
 GENERAL INFORMATION:
 ; APPLICANT: Desjarlais, John R.
 ; APPLICANT: Tansey, Malu Lourdes G.
 ; APPLICANT: Dahiya, Bassil T.
 ; TITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
 ; FILE REFERENCE: A-71273-2
 ; CURRENT APPLICATION NUMBER: US/10/338,083
 ; CURRENT FILING DATE: 2003-01-16
 ; PRIOR APPLICATION NUMBER: US 60/345,805
 ; PRIOR FILING DATE: 2002-01-04
 ; PRIOR APPLICATION NUMBER: US 60/373,453
 ; PRIOR FILING DATE: 2002-04-17
 ; NUMBER OF SEQ ID NOS: 23
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 20
 ; LENGTH: 24
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: coiled-coil motif
 US-10-338-083-20

Query Match 33.3%; Score 44; DB 14; Length 24;
 Best Local Similarity 44.4%; Pred. No. 62;
 Matches 8; Conservative 7; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 KIAALKOKIASLKOIDEA 18
 Db 7 KLSAVSKSLAVSKSLAA 24

RESULT 12
 US-10-611-399-20
 Sequence 20, Application US/10611399
 Publication No. US20040170602A1
 GENERAL INFORMATION:
 ; APPLICANT: Desjarlais, John R.
 ; APPLICANT: Tansey, Malu Lourdes G.
 ; TITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
 ; FILE REFERENCE: A-71273-3
 ; CURRENT APPLICATION NUMBER: US/10/611,399
 ; CURRENT FILING DATE: 2003-07-01
 ; PRIOR APPLICATION NUMBER: US 10/338,083
 ; PRIOR FILING DATE: 2003-01-06
 ; PRIOR APPLICATION NUMBER: US 60/345,805
 ; PRIOR FILING DATE: 2002-01-04
 ; PRIOR APPLICATION NUMBER: US 60/373,453
 ; PRIOR FILING DATE: 2002-04-17
 ; NUMBER OF SEQ ID NOS: 23
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 20
 ; LENGTH: 24
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: coiled-coil motif
 US-10-611-399-20

Query Match 33.3%; Score 44; DB 17; Length 24;
 Best Local Similarity 44.4%; Pred. No. 62;
 Matches 8; Conservative 7; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 KIAALKOKIASLKOIDEA 18
 Db 7 KLSAVSKSLAVSKSLAA 24

RESULT 14
 US-10-630-926-7

Sequence 7, Application US/10630926
 Publication No. US20040194160A1
 GENERAL INFORMATION:
 APPLICANT: RICCARDI, Carlo
 TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
 DEATH PATHWAYS
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
 STREET: 624 Ninth Street, N.W., Suite 300
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20001
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/630,926
 FILING DATE: 31-JUL-2003
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/09/403,861A
 FILING DATE: 11-Feb-2000
 APPLICATION NUMBER: PCT/EP98/02490
 FILING DATE: 27-APR-1998
 APPLICATION NUMBER: EP 97107033.9
 FILING DATE: 28-APR-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: YUN, Allen C.
 REGISTRATION NUMBER: 37,971
 REFERENCE/DOCKET NUMBER: RICCARDI=1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-628-5197
 TELEFAX: 202-737-3528
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 26 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: Peptide
 SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 US-10-630-926-7

Query Match 33.3%; Score 44; DB 16; Length 26;
 Best Local Similarity 43.5%; Pred. No. 68;
 Matches 10; Conservative 5; Mismatches 8; Indels 0; Gaps 0;
 Qy 5 LKQKIASLKQEDALEYD
 Db 1 LKEQIKELIENQSQLQENDLJK 23

RESULT 15
 US-09-834-759-534
 Sequence 534, Application US/09834759
 GENERAL INFORMATION:
 APPLICANT: Jiang, Yugu
 APPLICANT: Dillon, Davin C.
 APPLICANT: Mitcham, Jennifer L.
 APPLICANT: Xu, Jiangchun
 APPLICANT: Harlock, Susan L.
 APPLICANT: Heppler, William T.
 APPLICANT: Henderson, Robert A.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF BREAST CANCER
 FILE REFERENCE: 2.0:121-470C9
 CURRENT APPLICATION NUMBER: US/09/834,759
 CURRENT FILING DATE: 2001-04-13
 NUMBER OF SEQ ID NOS: 547
 SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 534
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-834-759-534
; Query Match 31.1%; Score 41; DB 9; Length 21;
; Best Local Similarity 50.0%; Pred. No. 1.3e+02;
; Matches 9; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
; Qy 5 LKQKIASLKQEDALEY 22
; Db 4 LKKEIAMLKLEIATLKHQ 21
; Search completed: April 27, 2005, 15:22:47
; Job time : 95.5 secs

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OM protein - protein search, using SW model

Run on: April 27, 2005, 14:58:17 ; Search time 29.5 Seconds

(without alignments)
70.853 Million cell updates/sec

Title: US-10-088-417A-1

Perfect score: 132

Sequence: 1 KIAALKQKIASLQKQEIDALEYENDALEQ 28

Scoring table: BLOSUM62

Gapopen 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 228236

Minimum DB seq length: 0
Maximum DB seq length: 28

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:
5: /cgn2_6/ptodata/1/iaa/PC7NS_COMB.pep:
6: /cgn2_6/ptodata/1/iaa/backFiles/pep:
* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	52	39.4	25	4 US-09-491-614B-25	Sequence 25, Appl
2	46	34.8	24	2 US-09-491-527A-12	Sequence 12, Appl
3	46	34.8	28	1 US-08-182-175A-1	Sequence 1, Appl
4	46	34.8	28	1 PCT-US92-06412-1	Sequence 1, Appl
5	45	34.1	24	2 US-09-491-527A-11	Sequence 11, Appl
6	44	33.3	26	4 US-09-493-861A-7	Sequence 7, Appl
7	41	31.1	21	4 US-09-834-759-534	Sequence 534, Appl
8	40	30.3	28	1 US-0-182-175A-3	Sequence 3, Appl
9	40	30.3	28	1 US-08-474-633A-70	Sequence 70, Appl
10	40	30.3	28	1 US-08-823-771-70	Sequence 70, Appl
11	40	30.3	28	5 PCT-US92-06412-3	Sequence 3, Appl
12	39	29.5	25	3 US-08-737-622-8	Sequence 8, Appl
13	39	29.5	27	1 US-08-446-922-9	Sequence 9, Appl
14	39	29.5	27	1 US-0-484-622A-24	Sequence 24, Appl
15	39	29.5	27	2 US-08-477-733B-24	Sequence 24, Appl
16	39	29.5	27	3 US-09-058-913A-24	Sequence 24, Appl
17	39	29.5	27	3 US-08-737-623-1	Sequence 1, Appl
18	39	29.5	27	3 US-08-759-819-24	Sequence 24, Appl
19	39	29.5	27	3 US-09-320-424-14	Sequence 14, Appl
20	39	29.5	27	3 US-08-770-974-24	Sequence 24, Appl
21	39	29.5	27	3 US-08-770-981-24	Sequence 24, Appl
22	39	29.5	27	4 US-09-399-105-24	Sequence 24, Appl
23	39	29.5	27	4 US-09-645-922A-4	Sequence 4, Appl
24	39	29.5	27	4 US-09-509-803-4	Sequence 4, Appl
25	39	29.5	27	4 US-09-835-563-14	Sequence 14, Appl
26	39	29.5	27	4 US-09-832-391-14	Sequence 4, Appl
27	39	29.5	27	4 US-09-524-100C-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-09-491-614B-25
; Sequence 25, Application US/09491614B
; Patent No. 6888106

GENERAL INFORMATION:
; APPLICANT: Colyer, John
; TITLE OF INVENTION: Methods and Compositions Using Coiled Binding Partners
; FILE REFERENCE: 10069/1150
; CURRENT APPLICATION NUMBER: US/09/491,614B
; CURRENT FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: 09/259,474
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 25
; LENGTH: 25
; TYPE: PRT
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: Peptide for forming a coiled coil
; NAME/KEY: Acetylation
; LOCATION: (1) .. (1)
; FEATURE:
; NAME/KEY: Amidation
; LOCATION: (25) .. (25)
; US-09-491-614B-25
Qy 9 IASLKEIDALEYENDALEQ 28
; Query Match 39 4%; Score 52; DB 4; Length 25;
; Best Local Similarity 60 0%; Pred. No. 0.69;
; Matches 12; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
; Db 1 IAALREIYKLEQENQLEQ 20
; General Information: Patent No. 5124483
; Applicant: Houston, Michael E.
; Title of Invention: Conformationally-Restricted Combinatorial Library Composition and Method
; Title of Invention: Library Composition and Method
; Number of Sequences: 115
; Correspondence Address:
; Addressee: Dehlinger & Associates
; Street: 350 Cambridge Avenue, Suite 250

CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94106
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/491,527A
 FILING DATE: 16-JUNE-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,199
 FILING DATE: 15-JUN-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/245,507
 FILING DATE: 1-MAY-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Sholtz, Charles K.
 REGISTRATION NUMBER: 38,615
 REFERENCE DOCKET NUMBER: 7900-00008.30
 TELECOMMUNICATION INFORMATION:
 TELEFAX: (415) 324-0880
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 24 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: unknown
 MOLECULE TYPE: Peptide
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: LPS epitope library peptide, Fig. 5A
 US-08-491-527A-12

Query Match 34.8%: Score 46; DB 2; Length 24;
 Best Local Similarity 54.5%; Pred. No. 4.6;
 Matches 12; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

Qy 1 KIAALKQKTIASLQIBDALEYE 22
 Db 1 EIEALKKEKHFELYQKTHALEKE 22

RESULT 3
 US-08-102-1175A-1
 Sequence 1, Application US/08102175A
 Patent No. 555923
 GENERAL INFORMATION:
 APPLICANT: Saverio Carl Falco
 APPLICANT: Sharon J. Keeler
 APPLICANT: Janet A. Rice
 TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing E
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: E.I. du Pont de Nemours and Company
 STREET: 1007 Market Street
 CITY: Wilmington
 STATE: Delaware
 COUNTRY: USA
 ZIP: 19898
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy Disk
 COMPUTER: Macintosh
 OPERATING SYSTEM: Macintosh System, 6.0
 SOFTWARE: Microsoft Word, 4.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/06412
 FILING DATE: 19920807
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 COMPUTER: Macintosh
 OPERATING SYSTEM: Macintosh System, 6.0
 SOFTWARE: Microsoft Word, 4.0
 ATTORNEY/AGENT INFORMATION:
 NAME: Linda Axamethy Floyd
 REGISTRATION NUMBER: 33,692
 REFERENCE DOCKET NUMBER: BB-1031
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (302) 992-4929
 TELEFAX: (302) 892-7949
 TELEX: 835420
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids

TYPE: AMINO ACID
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 FEATURE: Protein
 NAME/KEY: Protein
 LOCATION: 1..28
 OTHER INFORMATION: /label= name
 OTHER INFORMATION: /note= "SSP 4"!
 PCT-US22-06412-1

Query Match Score 34.8%; Score 46; DB 5; Length 28;
 Best Local Similarity 40.0%; Pred. No. 5,5;
 Matches 8; Conservative 9; Mismatches 3; Indels 0;
 Gaps 0;

Qy 1 KIAALKOKTASIKQEIDALEYE 22
 Db 4 KURALEEERKALBEKLKALE 23

RESULT 5
 US-08-491-57A-11
 Sequence 11, Application US/08491527A
 Patent No. 5824483
 GENERAL INFORMATION:
 APPLICANT: Houston, Michael E.
 APPLICANT: Hodges, Robert S.
 TITLE OF INVENTION: Conformationally-Restricted Combinatorial
 TITLE OF INVENTION: Library Composition and Method
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: 350 Cambridge Avenue, Suite 250
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/491,527A
 FILING DATE: 16-JUNE-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,199
 FILING DATE: 15-JUN-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/245,507
 FILING DATE: 18-MAY-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Sholtz, Charles K.
 REGISTRATION NUMBER: 38,615
 FILING DATE: 15-JUN-1994
 REFTELECOMMUNICATION INFORMATION:
 APPLICATION NUMBER: 7900-00008.30
 TELEPHONE: (415) 324-0960
 INFORMATION FOR SEQ ID NO: 11:
 TELFAX: (415) 324-0960
 SEQUENCE CHARACTERISTICS:
 LENGTH: 24 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: unknown
 MOLECULE TYPE: Peptide
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: exemplary generic library peptide,
 INDIVIDUAL ISOLATE: Fig. 3A
 US-08-491-327A-11

Query Match Score 34.1%; Score 45; DB 2; Length 24;

Best Local Similarity 50.0%; Pred. No. 6,3;
 Matches 11; Conservative 4; Mismatches 7;
 Indels 0;
 Gaps 0;

RESULT 6
 US-09-403-861A-7
 Sequence 7, Application US/09403861A
 Patent No. 6833348
 GENERAL INFORMATION:
 APPLICANT: RICCIARDI, Carlo
 TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 STREET: BROWDY AND NEIMARK, P.L.L.C.
 STREET: 624 Ninth Street, N.W., Suite 300
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20001
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/403, 861A
 FILING DATE: 11-Feb-2000
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP98/02490
 FILING DATE: 27-APR-1998
 APPLICATION NUMBER: EP 97107033.9
 FILING DATE: 28-APR-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: YUN, Allen C.
 REGISTRATION NUMBER: 37,371
 REFERENCE/DOCKET NUMBER: RICCARDI=1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-628-5197
 TELEFAX: 202-737-3528
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 26 amino acids
 TYPE: amino acid
 TOPOLOGY: Linear
 MOLECULE TYPE: Peptide
 SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 US-09-403-861A-7

Query Match Score 33.3%; Score 44; DB 4; Length 26;
 Best Local Similarity 43.5%; Pred. No. 9,6;
 Matches 10; Conservative 5; Mismatches 8;
 Indels 0;
 Gaps 0;

RESULT 7
 US-09-834-759-34
 Sequence 534, Application US/09834759
 Patent No. 6680197
 GENERAL INFORMATION:
 APPLICANT: Jiang, Yugui
 APPLICANT: Dillon, Davin C.
 APPLICANT: Mitcham, Jennifer L.
 APPLICANT: Xu, Jiangchun
 APPLICANT: Harlocker, Susan L.
 APPLICANT: Hepler, William T.

APPLICANT: Henderson, Robert A.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 FILE REFERENCE: 210121_470C9
 CURRENT APPLICATION NUMBER: US/09/834,759
 CURRENT FILING DATE: 2001-04-13
 NUMBER OF SEQ ID NOS: 547
 SOFTWARE: FastaSEQ for Windows Version 3.0
 SEQ ID NO: 534
 LENGTH: 21
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-834-759-534

Query Match 31.1%; Score 41; DB 1; Length 21;
 Best Local Similarity 50.0%; Pred. No. 20;
 Matches 9; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy 5 LKOKIASKLQEIDALEYE 22
 Db 4 LKREIAMMQLKLEATLHQ 21

RESULT 8
 US-08-182-175A-3
 ; Sequence 3, Application US/08182175A
 ; GENERAL INFORMATION:
 ; Patent No. 555223
 ; APPLICANT: Saverio Carl Falco
 ; APPLICANT: Sharon J. Keebler
 ; APPLICANT: Janet A. Rice
 ; TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing F
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: E.I. du Pont de Nemours and Company
 ; STREET: 1007 Market Street
 ; CITY: Wilmington
 ; STATE: Delaware
 ; COUNTRY: USA
 ; ZIP: 19898
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy Disk
 ; COMPUTER: Macintosh System, 6.0
 ; OPERATING SYSTEM: Macintosh System, 4.0
 ; SOFTWARE: Microsoft Word, 4.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/182,175A
 ; FILING DATE:
 ; CLASSIFICATION: 800
 ; PRIOR APPLICATION NUMBER: 07/743,006
 ; APPLICATION NUMBER: 07/743,006
 ; FILING DATE: 9 August 1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Linda Axamethy Floyd
 ; REGISTRATION NUMBER: 33,692
 ; REFERENCING INFORMATION:
 ; TELEPHONE: (310) 992-4929
 ; TELEFAX: (310) 892-7949
 ; TELEX: 835420
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 28 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; NAME/KEY: Protein
 ; LOCATION: 1..28
 ; OTHER INFORMATION: /label= name
 ; /note= " (SSP 7) 4"

US-08-474-633A-70

Query Match 30.3%; Score 40; DB 1; Length 28;
 Best Local Similarity 25.0%; Pred. No. 38;
 Matches 5; Conservative 12; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 KIAALKOKIASKLQEIDALE 20
 Db 4 KLKAMEEKLKAMEEKLKAME 23

RESULT 9
 US-08-474-633A-70
 ; Sequence 70, Application US/08474633A.
 ; GENERAL INFORMATION:
 ; APPLICANT: E. I. DU PONT DE NEMOURS AND
 ; COMPANY
 ; PATENT NO. 5773631
 ; TITLE OF INVENTION: CHIMERIC GENES AND
 ; METHODS FOR INCREASING
 ; THE LYSINE
 ; AND THREONINE CONTENT
 ; OF THE SEEDS OF PLANTS
 ; NUMBER OF SEQUENCES: 107
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: E. I. DU PONT DE NEMOURS
 ; AND COMPANY
 ; STREET: 1007 MARKET STREET
 ; CITY: WILMINGTON
 ; STATE: DELAWARE
 ; COUNTRY: U.S.A.
 ; ZIP: 19898
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: MICROSOFT WORD VERSION 2.0C
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/474,633A
 ; FILING DATE:
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BARBARA C. SIEGELL
 ; REGISTRATION NUMBER: 30,684
 ; REFERENCE/DOCKET NUMBER: BB-1037-C
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 302-922-4931
 ; TELEFAX: 302-773-0164
 ; TELEX: 835420
 ; INFORMATION FOR SEQ ID NO: 70:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 28 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; FEATURE:
 ; NAME/KEY: Protein
 ; LOCATION: 1..28
 ; OTHER INFORMATION: /label= name
 ; /note= " (SSP 7) 4"

US-08-474-633A-70

Query Match 30.3%; Score 40; DB 1; Length 28;
 Best Local Similarity 25.0%; Pred. No. 38;
 Matches 5; Conservative 12; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 KIAALKOKIASKLQEIDALE 20
 Db 4 KLKAMEEKLKAMEEKLKAME 23

RESULT 10
 US-08-823-771-70

Sequence 70, Application US/08823771

Patent No 6455019

GENERAL INFORMATION:

APPLICANT: E. I. DU PONT DE NEMOURS AND COMPANY

TITLE OF INVENTION: CHIMERIC GENES AND METHODS FOR INCREASING INCREASING THE LYSINE AND THREONINE CONTENT

NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANYSTREET: 1007 MARKET STREET
CITY: WILMINGTONSTATE: DELAWARE
COUNTRY: U.S.A.

ZIP: 19898

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: Macintosh

OPERATING SYSTEM: Macintosh System, 6.0

SOFTWARE: Microsoft Word, 4.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/06412

FILING DATE: 1992/08/07

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/743,006

FILING DATE: 9 August 1991

ATTORNEY/AGENT INFORMATION:

NAME: Linda Axamethy Floyd

REGISTRATION NUMBER: 33,692

REFERENCE/DOCKET NUMBER: BB-1031

TELECOMMUNICATION INFORMATION:

TELEPHONE: (302) 992-4929

TELEFAX: (302) 892-7949

TELEX: 835420

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: AMINO ACID

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: protein

FEATURE:

NAME/KEY: Protein

LOCATION: 1..28

OTHER INFORMATION: /label= name

/note= "(SSP 7)4"

PCT-US92-06412-3

RESULT 11

PCT-US92-06412-3
Sequence 3, Application PC/US9206412
GENERAL INFORMATION:
APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keele
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure ContainingNUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: E.I. du Pont de Nemours and Company

/

STREET: 1007 Market Street
CITY: Wilmington
STATE: Delaware
COUNTRY: USA

ZIP: 19898

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy Disk

COMPUTER: Macintosh

OPERATING SYSTEM: Macintosh System, 6.0

SOFTWARE: Microsoft Word, 4.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/06412

FILING DATE: 1992/08/07

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/743,006

FILING DATE: 9 August 1991

ATTORNEY/AGENT INFORMATION:

NAME: Linda Axamethy Floyd

REGISTRATION NUMBER: 33,692

REFERENCE/DOCKET NUMBER: BB-1031

TELECOMMUNICATION INFORMATION:

TELEPHONE: (302) 992-4929

TELEFAX: (302) 892-7949

TELEX: 835420

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: protein

FEATURE:

NAME/KEY: Protein

LOCATION: 1..28

OTHER INFORMATION: /label= name

/note= "(SSP 7)4"

US-08-823-771-70

SEQUENCE DESCRIPTION: SEQ ID NO: 70:

RESULT 12

US-08-737-629-8

; Sequence 8, Application US/08737629

; Patent No. 6190836

; GENERAL INFORMATION:

; APPLICANT: Hoppe, Hans-Jurgen

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/737,629

; FILING DATE: 10-JAN-1997

; CLASSIFICATION: 435

;

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB95/01104
 FILING DATE: 16-MAY-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: GB 9409768.0
 FILING DATE: 16-MAY-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Ms. Mary J. Wilson
 REFERENCE/DOCKET NUMBER: 32,955
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-4000
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 25 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-737-629-8

Query Match Score 29.5%; DB 3; Length 25;
 Best Local Similarity 50.0%; Pred. No. 46;
 Matches 6; Conservative 0; Gaps 0;
 Indels 0;

Qy 9 IASLKOEDALE 20
 Db :|||:||:||:
 3 VASLRQQVEALQ 14

RESULT 13
 US-08-446-922-9
 Sequence 9, Application US/08446922
 Patent No. 5716805
 GENERAL INFORMATION:
 APPLICANT: Springs, Melanie
 APPLICANT: Srinivasan, Subhashini
 TITLE OF INVENTION: Methods of Preparing Soluble, Oligomeric
 TITLE OF INVENTION: Proteins
 NUMBER OF SEQUENCES: 11
 CURRENT APPLICATION DATA:
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Macintosh
 OPERATING SYSTEM: Apple Operating System 7.1
 SOFTWARE: Microsoft Word for Apple, Version 5.1a
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/446,922
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/107,353
 FILING DATE: 08-13-93
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia A.
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 1003-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 587-0430
 TELEFAX: (206) 233-0644
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 27 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: linear

MOLECULE TYPE: Peptide
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-446-922-9

Query Match Score 29.5%; DB 1; Length 27;
 Best Local Similarity 50.0%; Pred. No. 51;
 Matches 6; Conservative 0; Gaps 0;
 Indels 0;

Qy 9 IASLKOEDALE 20
 Db :|||:||:||:
 3 VASLRQQVEALQ 14

RESULT 14
 US-08-488-624A-24
 Sequence 24, Application US/08488624A
 Patent No. 596246
 GENERAL INFORMATION:
 APPLICANT: Armitage, Richard
 APPLICANT: Panslon, William
 APPLICANT: Spriggs, Melanie
 APPLICANT: Srinivasan, Subhashini
 APPLICANT: Gibson, Marlyou
 APPLICANT: Morris, Arvia E.
 APPLICANT: McGrew, Jeffrey
 TITLE OF INVENTION: Novel Cytokine that Binds CD40
 NUMBER OF SEQUENCES: 26
 CURRENT APPLICATION DATA:
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation
 STREET: 51 University Street
 CITY: Seattle
 STATE: Washington
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: MS Word for Apple Power Macintosh, version 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/484,624A
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/477,733
 FILING DATE: June 07, 1995
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/969,703
 FILING DATE: October 23, 1992
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/805,723
 FILING DATE: December 5, 1991
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/783,707
 FILING DATE: October 25, 1991
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia A.
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2802-D
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 2065870430
 TELEFAX: 2065870506
 INFORMATION FOR SEQ ID NO: 24:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 27 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: linear

MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-484-624A-24

Query Match 29.5%; Score 39; DB 2; Length 27;
Best Local Similarity 50.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 0;
Indels 0; Gaps 0;

Qy 9 TASLQEQEIDALE 20
Db 3 VASLRQQVEALQ 14

RESULT 15
Sequence 24, Application US/08477733B
Patent No. 5981724

GENERAL INFORMATION:
APPLICANT: ARMITAGE, RICHARD
APPLICANT: FANSLOW, WILLIAM
APPLICANT: SPRIGGS, MELANIE
APPLICANT: SRINIVASAN, SUBHASHINI
APPLICANT: GIBSON, MARYLOU
APPLICANT: MORRIS, ARVIA E.
APPLICANT: MCGREW, JEFFERY
TITLE OF INVENTION: NOVEL CYTOKINE THAT BINDS CD40
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMMUNEX CORPORATION
STREET: 51 UNIVERSITY STREET
CITY: SEATTLE
STATE: WASHINGTON
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: MS Word for Apple Power Macintosh, version 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,733B
FILING DATE: June 07, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/249,189
FILING DATE: May 24, 1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/969,703
FILING DATE: October 23, 1992
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/805,723
FILING DATE: December 5, 1991
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/783,707
FILING DATE: October 25, 1991
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia A.
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2802-D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 2065870430
TELEFAX: 2065870606
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear

MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-477-733B-24

Query Match 29.5%; Score 39; DB 2; Length 27;
Best Local Similarity 50.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 0;
Indels 0; Gaps 0;

Qy 9 TASLQEQEIDALE 20
Db 3 VASLRQQVEALQ 14

Search completed: April 27, 2005, 15:19:42
Job time : 38.5 secs

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OM protein - protein search, using sw model

Run on: April 27, 2005, 14:54:59 ; Search time 23:5 Seconds

Title: US-10-088-417A-1
 Perfect score: 132
 Sequence: 1 KIAALKQKIASLKQEIDALEYENDALEQ

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 5694

Minimum DB seq length: 0

Maximum DB seq length: 28

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing First 45 summaries

Database : PIR 79;*
 1: pir1;*
 2: pir2;*
 3: pir3;*
 4: pir4;*

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Run on: April 27, 2005, 14:54:59 ; Search time 23:5 Seconds
 (without alignments)
 114.641 Million cell updates/sec

Title: US-10-088-417A-1
 Perfect score: 132
 Sequence: 1 KIAALKQKIASLKQEIDALEYENDALEQ 28

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 5694

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	
1	33	25.0	22	JB0069	ribosomal protein	
2	33	25.0	25	S27229	ribosomal protein alpha	
3	31	23.5	25	JP0067	ribosomal protein	
4	30	22.7	20	A61276	superoxide dismuta	
5	30	22.7	27	A38123	probable maud prot	
6	29	22.0	16	E58503	superoxide dismuta	
7	29	22.0	21	F38837	T-cell receptor be	
8	29	22.0	22	JP0066	ribosomal protein	
9	28	21.2	18	A20923	light myosin -	
10	28	21.2	22	PH0858	Maud protein - Par	
11	27	20.5	21	I40659	hypothetical prote	
12	27	20.5	21	I40657	probable colonizat	
13	27	20.5	25	A44790	ribosomal protein	
14	27	20.5	27	JP0065	bdellin B-3 - medi	
15	27	20.5	28	A61417	hypothetical prote	
16	26.5	20.1	26	F69265	alcohol dehydrogen	
17	26.5	20.1	27	S17646	hypothetical prote	
18	26	19.7	23	S24279	phosphorylase kina	
19	26	19.7	24	A34341	histone H1.1 - whe	
20	26	19.7	25	A23605	M protein pepM9 -	
21	26	19.7	26	PL0027	myosin - rabbit (f	
22	26	19.7	27	I46492	H+ -exporting ATPas	
23	25.5	19.3	20	A53592	troponin T, cardia	
24	25	18.9	14	A61032	protein Qh30026 -	
25	25	18.9	15	PA0025	nitrogenase (EC 1.	
26	25	18.9	19	PN0467	hypothetical prote	
27	25	18.9	24	S47281	terephthalate 1,2- <td></td>	
28	25	18.9	25	B44560	pepsin A (EC 3.4.2	
29	25	18.9	28	PL0005		

RESULT 1

JP0069
 ribosomal protein I30 - Thermomonospora mesophila (fragment)

C;Species: Thermomonospora mesophila

C;Date: 10-Mar-1994 #sequence_revision 26-Oct-1994 #text_change 28-Oct-1994

R;Ochi, K;
 Submitted to JIPID, February 1994

A;Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal pr

C;Accession: JP0069

A;Accession: JP0042

A;Molecule type: protein

A;Residues: 1-22 <OCH>

C;Keywords: protein biosynthesis; ribosome

Query Match 25.0%; Score 33; DB 2; Length 22;

Best Local Similarity 36.8%; Pred. No. 5e+02; Mi.matches 3; Mismatches 7; Conservative 9; Indels 0; Gaps 0;

Qy 1 KIAALKQKIASLKQEIDAL 19
 ||| : ||| : |||
 Db 4 KITOLRSKICKKQNKQDXL 22

RESULT 2

S27229
 prothymosin alpha homolog - Escherichia coli (fragment)

C;Species: Escherichia coli

C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 10-Nov-1995

C;Accession: S27229

R;Vartapetian, A.; Chichkova, N.; Lyakhov, I.; Makarova, T.; Evstafitova, A.; Bogdanov, A

FEMS Lett. 313, 95-97, 1992

A;Title: Segments of Escherichia coli genome similar to the exons of human prothymosin a

A;Accession number: S27229; MUID:93050251; PMID:1426289

A;Accession: S27229

A;Status: preliminary

A;Molecule type: DNA

A;Accession: 1-6;7-25 <VAR>

A;Residues: 1-6;7-25 <VAR>

A;Note: the authors did not translate the codon for residues 17

Query Match 25.0%; Score 33; DB 2; Length 25;

Best Local Similarity 42.1%; Pred. No. 5.8e+02; Mi.matches 4; Mismatches 8; Conservative 7; Indels 0; Gaps 0;

Qy 10 ASLKEIDALEYENDALEQ 28
 ||| : ||| : ||| : |||
 Db 4 ASVNBENGELEADNDDEE 22

RESULT 3
 JP0067
 ribosomal protein I30 - Thermomonospora mesophila (fragment)

RESULT 6
 E58503 superoxide dismutase (EC 1.15.1.1) - unidentified bacterium (fragment)
 N;Alternate names: 21.3K bladder and kidney stone protein
 C;Species: unidentified bacterium
 C;Date: 07-Feb-1997 #sequence_revision 07-Feb-1997 #text_change 09-Jul-2004
 C;Accession: E58503
 R;Binette, J.P.; Binette, M.B.
 submitted to the Protein Sequence Database, October 1996
 A;Description: The proteins of kidney and gallbladder stones.
 A;Reference number: A58501
 A;Accession: E58503
 A;Status: preliminary
 A;Molecule type: protein
 A;Residues: 1-16 <BIN>
 A;Cross-references: UNIPROT:Q7M137
 A;Experimental source: human bladder and kidney stones
 C;Function: catalyzes the dismutation of 2 molecules of peroxide radical to dioxygen
 C;Keywords: metalloprotein; oxidoreductase

Query Match Score 31; DB 2; Length 25;
 Best Local Similarity 31.5%; Pred. No. 1e+03; Mismatches 5; Indels 0; Gaps 0;
 Matches 6; Conservative 5; Mismatches 8; Indels 8; Gaps 0;

Qy 1 KIAALKQKASLQEIDAL 19
 Db 4 KITQVRSKIGGKQNXDSL 22

RESULT 4
 A61276 superoxide dismutase (EC 1.15.1.1) (Fe/Mn) homolog - chicken (fragment)
 N;Alternate names: osteoclast membrane Glycoprotein
 ;Species: Gallus gallus (chicken)
 C;Accession: A61276
 C;Function: 12-May-1994 #sequence_revision 12-May-1994 #text_change 05-Mar-1999
 C;Description: catalyzes the dismutation of 2 molecules of peroxide radical to dioxygen
 C;Keywords: metalloprotein; oxidoreductase

Query Match Score 30; DB 2; Length 20;
 Best Local Similarity 53.8%; Pred. No. 1.1e+03; Mismatches 1; Indels 5; Gaps 0;
 Matches 7; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

Qy 15 BIDALEYENDAL 27
 Db 3 ELPDLEYAYDALE 15

RESULT 7
 F38837 T-cell receptor beta chain precursor V region (23.1) - human (fragment)
 A;Species: Homo sapiens (man)
 C;Accession: F38837
 R;Dematay, Y.; Wege, H.; Straus, A.; Ott, M.; Bannwarth, W.; Lanchbury, J.; Panayi, G.;
 Proc. Natl. Acad. Sci. U.S.A. 88, 854-858, 1991
 A;Title: The T-cell receptor repertoire in the synovial fluid of a patient with rheumatoid arthritis
 A;Reference number: A41299; MUID:92020887; PMID:1656449
 A;Accession: F38837
 A;Status: preliminary; not compared with conceptual translation
 A;Molecule type: mRNA
 A;Residues: 1-21 <UEM>
 A;Cross-references: GB:557606; NID:9236346; PIDN:AA819970.1; PID:9236347
 C;SuperFamily: immunoglobulin V region; immunoglobulin homology
 C;Keywords: T-cell receptor

Query Match Score 29; DB 2; Length 21;
 Best Local Similarity 40.0%; Pred. No. 1.5e+03; Mismatches 4; Indels 5; Gaps 0;
 Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 12 LKQIDALEYENDAL 26
 Db 1 LSINNNALELDDBSHL 15

RESULT 8
 JP0066 ribosomal protein L30 - Nocardia asteroides (fragment)
 C;Species: Nocardia asteroides
 C;Accession: JP0066
 R;Ochi, K.
 submitted to JIPID, February 1994
 A;Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal rRNA
 A;Reference number: JP0042
 A;Accession: JP0066
 A;Molecule type: protein
 A;Residues: 1-22 <OCH>
 A;Cross-references: UNIPROT:Q7M028
 C;Keywords: protein biosynthesis; ribosome

RESULT 5
 A38123 probable maud protein - Methyllobacterium extorquens (strain AM1) (fragment)
 C;Species: Methyllobacterium extorquens
 C;Accession: A38123
 C;Date: 24-Jul-1992 #sequence_revision 24-Jul-1992 #text_change 09-Jul-2004
 R;Chistoserdov, A.Y.; Lidstrom, M.E.
 J. Bacteriol. 173, 5909-5913, 1991
 A;Title: The small-subunit polypeptide of methylamine dehydrogenase from Methyllobacterium
 A;Reference number: A38123; MUID:91358306; PMID:1885555
 A;Accession: A38123

Query Match Score 30; DB 2; Length 27;
 Best Local Similarity 29.2%; Pred. No. 1.5e+03; Mismatches 8; Indels 9; Gaps 0;

Qy 2 IAALKQKASLQEIDALEYENDA 25
 Db 1 LEADKSGFASIQMFTSRKHSDA 24

R; Ochi, K. submitted to JIPID, February 1994
 A; Description: Phylogenetic diversity in the genus *Bacillus* and comparative ribosomal protein
 A; Reference number: JP0042

A; Accession: JP0065

A; Molecule type: protein

A; Residues: 1-27 <OCH>

C; Superfamily: *Escherichia coli* ribosomal protein L30

C; Keywords: protein biosynthesis; ribosome

Query Match 20.5%; Score 27; DB 2; Length 27;
 Best Local Similarity 36.8%; Pred. No. 3.5e+03;
 Matches 7; Conservative 2; Mismatches 10; Indels 0; Gaps 0;
 Qy 1 KIAALKOKTASIKQEIDAL 19
 Db 4 KITQVKSITGSKONXXDTL 22

RESULT 15

A61417 bdellin B-3 - medicinal leech (fragment)

C; Species: Hirudo medicinalis (medicinal leech)

C; Date: 09-Sep-1994 #Sequence_revision 09-Sep-1994 #text_change 07-May-1999

C; Accession: A61417

R; Krejci, K.; Fritz, H.

PRBS Lett. 64, 152-157, 1976

A; Title: Structural homology of a trypsin-plasmin inhibitor from leeches (bdellin B-3)

A; Reference number: A61417; MUID:76188026; PMID:131707

A; Accession: A61417

A; Status: preliminary

A; Molecule type: protein

A; Residues: 1-28 <KRE>

Query Match 20.5%; Score 27; DB 2; Length 28;
 Best Local Similarity 40.0%; Pred. No. 3.6e+03;
 Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
 Qy 17 DALEYENAL 26
 Db 17 DGVTYDNCL 26

Search completed: April 27, 2005, 15:07:07
 Job time : 29.5 secs

OS Homo sapiens (Human); Chordata; Craniata; Vertebrata; Buteleostomi;
 OC Eukaryota; Metazoa; Chordata; Primates; Catarrhini; Hominidae; Homo.
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE.
 RA Erne P.; Yamakado T.; Heizmann C.W.; Cerletti N.; Buhler F.R.;
 RA Crabs M.; Yamakado T.; Heizmann C.W.; Cerletti N.; Buhler F.R.;
 RT "The calcium binding protein troponosin in human platelets and
 RT cardiac tissue: elevation in hypertensive cardiac hypertrophy";
 RT Submitted (AUG-1992) to the EMBL/GenBank/DBJ databases.
 RL 1
 FT NON_TER 23 23
 FT SEQUENCE 23 AA; 2475 MW; EBD4B463012E7716 CRC54;
 SQ Query Match 28.8%; Score 38; DB 2; Length 23;
 Best Local Similarity 47.1%; Pred. No. 1.2e+03; 0;
 Matches 8; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
 Qy 4 ALKOKIASLKOIBDALE 20
 Db 1 AVIKKIQDQOQADEAE 17
 RESULT 3
 Q7RR69 PRELIMINARY; PRT; 26 AA.
 ID Q7RR69
 AC Q7RR69
 DT 01-MAR-2004 (TREMBLrel. 26, Created)
 DT 01-MAR-2004 (TREMBLrel. 26, Last sequence update)
 DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
 DE Hypothetical protein (Fragment).
 GN Name=PV00865;
 OS Plasmodium yoelii yoelii.
 OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
 OX NCBI_TaxID=73239;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=17XNU;
 RX PubMed=12368665; DOI=10.1038/nature01099;
 RA Carlton J.M.; Angiuoli S.V.; Suh B.B.; Kooij T.W.; Pertea M.;
 RA Silva J.C.; Brmolaeva M.D.; Allen J.E.; Selengut J.D.; Koo H.L.;
 RA Peterson J.D.; Pop M.; Kosack D.S.; Shumway M.P.; Bidwell S.L.;
 RA Shallon S.J.; van Aken S.E.; Riedmiller T.V.; Feldblyum T.M.;
 RA Cho J.K.; Quackenbush J.; Sedegah M.; Shoaibi A.; Cummings L.M.;
 RA Florens L.; Yates F.R. III; Raine J.D.; Sinden R.E.; Harris M.A.;
 RA Cunningham D.A.; Preiser P.R.; Bergman L.W.; Smith H.O.; White O.R.;
 RA van Lin L.H.; Janse C.J.; Waters A.P.; Smith C.M.; Fraser C.M.;
 RA Salzberg S.L.; Venter J.C.; Hoffman S.L.; Gardner M.J.;
 RA Carucci D.J.;
 RT "Genome sequence and comparative analysis of the model rodent malaria
 parasite Plasmodium yoelii yoelii.";
 RT Nature 419:512-519 (2002).
 CC -1- CAUTION: The sequence shown here is derived from an
 EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 preliminary data.
 DR PABLO000232; ERA19000.1; -.
 KW Hypothetical protein.
 FT NON_TER 1 1
 FT SEQUENCE 26 AA; 3147 MW; C3507C4723F4490A CRC64;
 SQ Query Match 26.5%; Score 35; DB 2; Length 26;
 Best Local Similarity 35.0%; Pred. No. 3e+03; 0;
 Matches 7; Conservative 6; Mismatches 7; Indels 0; Gaps 0;
 Qy 4 ALKOKIASLKOIBDALE 23
 Db 2 AFKRKAKYKEENESLIVDS 21
 RESULT 4
 O44710 PRELIMINARY; PRT; 22 AA.
 ID O44710

OS Drosophila pseudoobscura (Fruit Fly);
 OC Neopera; Endopterygota; Hexapoda; Insecta; Pterygota;
 OC Ephydriidae; Drosophilidae; Drosophila; Drosophila.
 OX NCBI_TaxID=7237;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Goldendale 3;
 RX MEDLINE=9942289; PubMed=10511563;
 RA Hamblin M.T.; Aquadro C.F.;
 RT "DNA sequence variation and the recombinational landscape in
 Drosophila pseudoobscura. A study of the second chromosome.";
 RL Genetica 153:859-865 (1999).
 DR EMBL; AF039274; AAB96670.1; -.
 DR AF039273; AAB96670.1; JOINED.
 DR FlyBase; FBgn0025413; Dbase\Tm1.
 DR InterPro; IPR000533; Tropomyosin.
 DR Pfam; PF00261; Tropomyosin; 1.
 FT NON_TER 1 1
 FT SEQUENCE 22 AA; 2611 MW; F86BB44608F4175C CRC64;
 SQ Query Match 25.8%; Score 34; DB 2; Length 22;
 Best Local Similarity 35.3%; Pred. No. 3.3e+03; 0;
 Matches 6; Conservative 7; Mismatches 4; Indels 0; Gaps 0;
 Qy 6 KOKIASLKOIBDALEYE 22
 Db 2 EKQVRLQKEVDRLEDE 18
 RESULT 5
 Q95Y34 PRELIMINARY; PRT; 16 AA.
 ID Q95Y34
 AC Q95Y34;
 DT 01-DEC-2001 (TREMBLrel. 19, Created)
 DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
 DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
 DB Hypothetical protein Y108G3AL 6;
 GN Name=Y108G3AL 6; ORFNames=Y108G3AL 6;
 OS Caenorhabditis elegans.
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditidae; Peloderae; Caenorhabditis.
 OC NCBI_TaxID=6239;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RX MEDLINE=990169613; PubMed=9851916;
 RG Wormbase Consortium;
 RT "Genome sequence of the nematode *C. elegans*: a platform for
 investigating biology." The *C. elegans* Sequencing Consortium.
 RT Science 282:2012-2018 (1998).
 RL [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Courtney L.;
 RT "The sequence of *C. elegans* cosmid Y108G3AL";
 RT submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
 RL [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.H.;
 RT Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
 RL [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.;

Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.

[5] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Waterston R.;

RL Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.

[6] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Waterston R.;

RL Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.

[7] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Waterston R.;

RL Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.

[8] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Waterston R.;

RL Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.

[9] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Waterston R.;

RL Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.

[10] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Wilson R.;

RL Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.

[11] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Wilson R.;

RL Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.

[12] SEQUENCE FROM N.A.

RC STRAIN=Bristol N2;

RA Wormbase Consortium;

RL Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.

EMBL; AC024744; ALJ3326.1;

DR Wormbase; WBGene0022437; Y108G3AL.6.

DR WormPep; Y108G3AL.6; CE296605.

KW Hypothetical protein.

SQ SEQUENCE 16 AA; 1904 MW;

4932093B5A3361E5 CRC64;

Query Match Score 32;

DB 2;

Length 16;

Best Local Similarity 35.7%;

Pred. No. 4.2e+03;

5; Mismatches 4;

Indels 0;

Gaps 0;

Matches 5; Conservative 5;

Indels 0;

Gaps 0;

Score 32;

DB 2;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

DB 1;

Length 15;

Best Local Similarity 53.8%;

Pred. No. 5.2e+03;

1; Mismatches 5;

Indels 0;

Gaps 0;

Score 31;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID:10096;
 RN [1] -
 RP SEQUENCE FROM N.A.;
 RA Green K.J., Guy S.G., Cserhalmi-Friedman P., McLean W.H.I.,
 RA Christiano A.M., Wagner R.M.;
 RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AFI46515; AAF02528.1; -;
 DR MGD; MGI:109611; Dsp;
 FT NON-TER 1 18 1
 FT NON-TER 18 18 18 AA; 2289 MW; 3B41DF23C1E2FF960 CRC64;
 SQ SEQUENCE 18 AA; 2289 MW; 3B41DF23C1E2FF960 CRC64;

Query Match 23.5%; Score 31; DB 2; Length 18;
 Best Local Similarity 41.2%; Pred. No. 6.2e+03; DB 2;
 Matches 7; Conservative 6; Mismatches 2; Indels 1; Gaps 0;
 Qy 1.1 SIKQEIDALEYENDALE 27
 :|||:|||:|||:
 Db 4 NLRQEIE-KFQKALE. 18

RESULT 9
 Q9QZX5 PRELIMINARY; PRT; 18 AA.
 ID Q9QZX5
 AC Q9QZX5
 DT 01-MAY-2000 (TREMBLrel. 13; Created)
 DT 01-MAY-2000 (TREMBLrel. 13; Last sequence update)
 DE Desmoplakin (Fragment).
 GN Name=Dsp;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID:10090;
 RN SEQUENCE FROM N.A.
 RA STRAIN=C75B16/J;
 RA Green K.J., Guy S.G., Cserhalmi-Friedman P., McLean W.H.I.,
 RA Christiano A.M., Wagner R.M.;
 RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AFI48514; AAF02327.1; -;
 DR MGD; MGI:109611; Dsp;
 DR GO; GO:0016323; C:basolateral plasma membrane; IDA.
 DR GO; GO:0003057; C:desmosome; IDA.
 DR GO; GO:0005739; C:mitochondrion; IDA.
 FT NON-TER 1 1
 FT NON-TER 18 18 18 AA; 2289 MW; 3B41DF23C1E2FF960 CRC64;
 SQ SEQUENCE 18 AA; 2289 MW; 3B41DF23C1E2FF960 CRC64;

Query Match 23.5%; Score 31; DB 2; Length 18;
 Best Local Similarity 41.2%; Pred. No. 6.2e+03; DB 2;
 Matches 7; Conservative 6; Mismatches 2; Indels 1; Gaps 0;
 Qy 1.1 SIKQEIDALEYENDALE 27
 :|||:|||:|||:
 Db 4 NLRQEIE-KFQKALE. 18

RESULT 10
 Q9UC80 PRELIMINARY; PRT; 19 AA.
 ID Q9UC80
 AC Q9UC80
 DT 01-MAY-2000 (TREMBLrel. 13; Created)
 DT 01-MAY-2000 (TREMBLrel. 13; Last sequence update)
 DT 25-OCT-2004 (TREMBLrel. 28; Last annotation update)
 DE 21.5 kDa stone matrix protein (EC 1.15.1.1) (Superoxide dismutase [Mn/Fe] (Fragment).
 OS Homo sapiens (Human).
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NCBI_TaxID=9606; [1]

RP SEQUENCE.
 RA Binette J.P., Binette M.B.;
 RA "Sequencing of proteins extracted from stones.",
 RT Submitted (JUN-1995) to the EMBL/GenBank/DBJ databases.
 CC -I- FUNCTION: Destroys radicals which are normally produced within the cells and which are toxic to biological systems (By similarity).
 CC -I- CATALYTIC ACTIVITY: 2 superoxide + 2 H⁺ = O⁽²⁾ + H⁽²⁾O (2).
 CC -I- SIMILARITY: Belongs to the iron/manganese superoxide dismutase family.
 CC HSSP; P09223; 1D10.
 DR GO; GO:0046872; F:metal ion binding; IEA.
 DR GO; GO:0016491; F:oxidoreductase activity; IEA.
 DR GO; GO:0004784; F:superoxide dismutase activity; IEA.
 DR GO; GO:0006801; P:superoxide metabolism; IEA.
 DR InterPro; IPR001189; SODIsmutase.
 DR Pfam; PF00081; Sod_Fe_N; 1.
 DR Oxidoreductase.
 SQ SEQUENCE 19 AA; 2116 MW; A0D0DAE848EE7894 CRC64;

Query Match 23.5%; Score 31; DB 2; Length 19;
 Best Local Similarity 46.2%; Pred. No. 6.5e+03; DB 2;
 Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

RESULT 11
 Q9NUT6 PRELIMINARY; PRT; 27 AA.
 ID Q9NUT6
 AC Q9NUT6
 DT 01-OCT-2000 (TREMBLrel. 15; Created)
 DT 01-MAR-2004 (TREMBLrel. 26; Last annotation update)
 DR Major paratilellar rod protein (Fragment).
 DE Leishmania major.
 OS Leishmania major.
 OC Eukaryota; Bilateria; Kinetoplastida; Trypanosomatida; Leishmania.
 OX NCBI_TaxID=5664;
 RN [1] -
 RP SEQUENCE FROM N.A.
 RA Chiang L.Y., Lee T.;
 RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AFI10672; AAF56093.1; -
 DR GO; GO:0019861; C:Flagellum; IEA.
 DR FT NON-TER 1 1
 DR FT NON-TER 27 27
 DR SEQUENCE 27 AA; 3005 MW; OC5ADB2B6B425ED9 CRC64;

Query Match 23.5%; Score 31; DB 2; Length 27;
 Best Local Similarity 53.8%; Pred. No. 9.1e+03; DB 2;
 Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

RESULT 12
 Q9UC81 PRELIMINARY; PRT; 28 AA.
 ID Q9UC81
 AC Q9UC81
 DT 01-AUG-1998 (TREMBLrel. 07; Created)
 DT 01-AUG-1998 (TREMBLrel. 07; Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19; Last annotation update)
 DE Beta-9 tubulin (Fragment).
 GN Name=TUB9;
 OS Arabidopsis thaliana (Mouse-ear cress).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.
 OX NCBI_TaxID=3702;

RN	[1]	RN	[1]
RP	SEQUENCE FROM N.A.	RP	SEQUENCE.
RA	Sanders P.M., Bui A.O., Weterings K., McIntire K.N., Hsu Y.C., Lee P.Y., Truong M.T., Beals T.B., Goldberg R.B.,	RC	TISSUE=Venom;
RA	"Anther Development Defects in <i>Arabidopsis thaliana</i> Male-Sterile Mutants."	RX	MEDLINE=94161525; PubMed=8080286; DOI=10.1006/abbi.1994.1401;
RT	Sex. Plant Reprod. 11:297-322(1999).	RA	Ponudurai G., Chung M.C.M., Tan N.-H.,
RT	DR: EMBL: AF06248; AAC97107.1; _.	RA	"Purification and properties of the L-amino acid oxidase from Malayan pit viper (Calloselasma rhodostoma) venom."
RL	PT: NON TER 1	RT	pit viper (Calloselasma rhodostoma) venom.
DR	SQ: SEQUENCE 28 AA; 3188 MW; 8060E4E37BB570E CRC64;	RL	Arch. Biochem. Biophys. 313:373-378(1994).
PT	Query Match 22.7%; Score 30; DB 2; Length 28;	RN	[2]
Best Local Similarity 37.5%; Pred. No. 1.2e+04; Indels 1;	TISSUE=Venom; PMID=9304006; DOI=10.1016/S1357-2725(97)00024-1;	RP	SEQUENCE OF 1-15.
Matches 9; Conservative 3; Mismatches 8; Indels 4; Gaps 1;	RC	RC	PTM: Glycosylated.
Qy 9 TASLKOEDAL---EVENDALEQ 28	AC	AC	Strong, to mammalian FIG1.
Db 3 VAEYQQYQDATVGEYEEYEDEEBE 26	DT	DT	Direct protein sequencing; PAD; Flavoprotein; Glycoprotein;
DB	DB	DT	Oxidoreductase; Toxin.
RESULT 13	CC	FT	FUNCTION: Has cytotoxic activity (By similarity).
Q7M137 ID: Q7M137 PRELIMINARY; PRT; 16 AA.	CC	CC	-1- CATALYTIC ACTIVITY: An L-amino acid + H(2)O + O(2) = a 2-oxo acid
AC Q7M137; DT 01-MAR-2004 (TREMBLrel. 26, Created)	CC	CC	+ NH(3) + H(2)O(2).
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)	CC	CC	-1- COFACTOR: PAD.
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)	CC	CC	-1- SUBUNIT: Homodimer (Probable).
DB Superoxide dismutase (EC 1.15.1.1) (Fragment).	CC	CC	-1- PTM: Glycosylated.
OS unidentified bacterium.	CC	CC	-1- SIMILARITY: Belongs to the flavin monoamine oxidase family.
OC Bacteria; environmental samples.	CC	CC	Strong, to mammalian FIG1.
OX NCBI_TAXID=2338; RN [1] _	CC	FT	Direct protein sequencing; PAD; Flavoprotein; Glycoprotein;
RP SEQUENCE.	CC	CC	Oxidoreductase; Toxin.
RA Binette J.P., Binette M.B., Submitted (OCT-1996) to the PIR data bank.	CC	CC	FUNCTION: Destroys radicals which are normally produced within the cells and which are toxic to biological systems (By similarity).
CC -1- FUNCTION: Destroys radicals which are normally produced within the cells and which are toxic to biological systems (By similarity).	CC	CC	-1- CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) O(2) + H(2)O(2).
CC -1- SIMILARITY: Belongs to the iron/manganese superoxide dismutase family.	CC	CC	-1- SIMILARITY: Belongs to the iron/manganese superoxide dismutase family.
CC PIR: E58503; E58503.	CC	CC	PIR: E58503; E58503.
DR GO; GO:0046872; F:metal ion binding; IEA.	DR	DR	GO; GO:0046872; F:oxido-reductase activity; IEA.
DR GO; GO:0016491; F:superoxide dismutase activity; IEA.	DR	DR	GO; GO:0004784; F:superoxide dismutase activity; IEA.
DR GO; GO:0004784; F:superoxide dismutase activity; IEA.	DR	DR	GO; GO:0008801; P:superoxide metabolism; IEA.
DR InterPro: IPR001189; SODIlemutase.	DR	DR	DR: Pfam; PF00081; Sod_Fe_N; 1.
DR Oxidoreductase.	DR	DR	DR: Ribosomal protein L30 (Fragment).
KW	KW	OS	OS: Nocardia asteroides.
FT NON TER 16 AA; 1828 MW; 12DE78949AC43609 CRC64;	FT	OC	OC: Bacteri; Actinobacteria; Actinomycetales; Corynebacteriaceae; Nocardiaceae; Nocardiidae.
SQ	Qy 12 LKQEIDALEYENDAL 26	FT	NCBI_TAXID=1824;
Query Match 22.0%; Score 29; DB 2; Length 16;	FT	FT	OX
Best Local Similarity 40.0%; Pred. No. 9.5e+03; Indels 0; Gaps 0;	FT	FT	RN [1] _
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;	FT	FT	RP
Qy 12 LKQEIDALEYENDAL 26	FT	FT	SEQUENCE.
Db 1 MEHTLPLPLPYENDAL 15	FT	FT	Ochi K.;
DB	Qy 8 KIASLKOEDALEYENDAL 26	FT	RL Submitted (FEB-1994) to the PIR data bank.
DB	Db 4 KVTKSTIGAKANQKDSL 22	FT	DR PIR; JP0066; JP0066.
RESULT 14	FT	FT	DR NON_TER 1 1
OXLA_OPHHA ID: OXLA_OPHHA STANDARD; PRT; 19 AA.	FT	FT	FT NON_TER 22 22
AC P81383; DT 15-DEC-1998 (Rel. 37, Created)	FT	FT	FT NON_TER 22 2330 MW; 5C7E71FB6FD577CA CRC64;
DT 15-JUL-1999 (Rel. 38, Last sequence update)	FT	FT	FT
DT 25-OCT-2004 (Rel. 45, Last annotation update)	FT	FT	FT
DB L-amino-acid oxidase (EC 4.3.2.1) (LAO) (Fragment).	FT	FT	FT
OS Ophiophagus hannah (King cobra) (Naja hannah).	FT	FT	FT
OC Bokaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	FT	FT	FT
OC Lepidosauryia; Squamata; Scleroglossa; Serpentes; Colubroidea;	FT	FT	FT
OC Elapidae; Elapinae; Ophiophagus.	FT	FT	FT
OC NCBI_TAXID=8665;	FT	FT	FT

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Job time : 122.9secs

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Db 1 KIRALKWNNAHLKQETAALEQETAALEQ 28

RESULT 2
 AAB74347
 ID AAB74347 standard; peptide; 28 AA.
 XX
 AC AAB74347;
 XX DT 02-JUL-2001 (first entry)
 XX DB Peptide SAF-p2C.
 XX KW Atomic Force Microscopy; AFM.
 XX OS Unidentified.
 XX PN WO200121646-A1.
 XX PD 29-MAR-2001.
 XX PF 18-SEP-2000; 2000WO-GB003576.
 XX PR 17-SEP-1999; 99GB-00022013.
 XX PA (UYSU-) UNIV SUSSEX.

XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
 XX WPI; 2001-335468/35.
 XX PR 17-SEP-1999; 99GB-00022013.
 XX PA (UYSU-) UNIV SUSSEX.

XX PR 17-SEP-1999; 99GB-00022013.
 XX PA (UYSU-) UNIV SUSSEX.

XX PR 17-SEP-1999; 99GB-00022013.
 XX PA (UYSU-) UNIV SUSSEX.

XX New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

XX Claim 16; Page 26; 45pp; English.

XX The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2C

XX Sequence 28 AA;

Query Match 100.0%; Score 137; DB 4; Length 28;
 Best Local Similarity 100.0%; Pred. No. 3.2e-11;
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KIRALKWNNAHLKQETAALEQETAALEQ 28
 Db 1 KIRALKWNNAHLKQETAALEQETAALEQ 28

RESULT 3
 AAB74349
 ID AAB74349 standard; peptide; 28 AA.
 XX AC AAB74349;
 XX DT 02-JUL-2001 (first entry)
 XX DB Peptide SAF-p2E.
 XX KW Atomic Force Microscopy; AFM.
 XX OS Unidentified.

XX PN WO200121646-A1.
 XX PD 29-MAR-2001.
 XX PF 18-SEP-2000; 2000WO-GB003576.

XX Disclosure; Page 9; 45pp; English.

XX The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves. The present sequence is the peptide monomer unit SAF-p2D

XX Sequence 28 AA;

DE	Peptide SAF-p1A.
XX	XX
KW	Atomic Force Microscopy; AFM.
XX	XX
OS	Unidentified.
XX	XX
FN	WO20121646-A1.
XX	XX
PD	29-MAR-2001.
XX	XX
PF	18-SEP-2000; 2000WO-GB003576.
XX	XX
PR	17-SEP-1999; 99GB-00022013.
XX	XX
PA	(UYSU-) UNIV SUSSEX.
XX	XX
PI	Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX	XX
DR	WIT; 2001-335468/35.
XX	XX
PT	New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
PT	Claim 16; Page 26; 45PP; English.
XX	XX
CC	The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p1A.
CC	PS
CC	Sequence 28 AA;
CC	Query Match 54.0%; Score 74; DB 4; DB 4; Length 28;
CC	Best Local Similarity 71.4%; Pred. No. 0.0082;
CC	Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
CC	AC
CC	XX
CC	AAB74342 standard; peptide; 28 AA.
CC	XX
AC	XX
AC	AAB74342;
XX	XX
DT	02-JUL-2001 (first entry)
XX	XX
DE	Peptide SAF-p1B.
XX	XX
KW	Atomic Force Microscopy; AFM.
XX	XX
OS	Unidentified.
XX	XX
FN	WO20121646-A1.
XX	XX
PN	WO200121646-A1.
XX	XX
PD	29-MAR-2001.
XX	XX
PP	18-SEP-2000; 2000WO-GB003576.
XX	XX
PR	17-SEP-1999; 99GB-00022013.
XX	XX
PA	(UYSU-) UNIV SUSSEX.
XX	XX
PI	Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX	XX
DR	WIT; 2001-335468/35.
XX	XX
PT	New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and
PT	PT

PPT Disclosure: Page 9: 45pp: English
XX tissue engineering, or constructing nanoscale molecular sieves.

The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present disclosure is the non-limiting monomer unit CAP101.

Sequence 28 AA:

Query Match	Score	DB 4;	Length	28;
Best Local Similarity	54.0%			
Best Matches	71.4%	Pred. No.	0.0082;	
Matches	20;	Conservative	0;	
		Mismatches	8;	Indels
		0;		Gaps
				0;

1	KIRALKWNAHLKOSIAALQEIAALDEQ	28
1	KIAALKQIAALQEIAALDEQ	28

Search completed: April 27, 2005, 15:02:16
Job time : 123 secs

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Copyright (c) 1993 - 2005 Compugen Ltd.	GenCore version 5.1.6	30	25	18.2	26	2	A37476
OM protein - protein search, using sw model		31	24.5	18.2	27	2	B33420
Run on: April 27, 2005, 14:54:59 ; Search time 23.5 Seconds (without alignments)	114.641 Million cell updates/sec	32	24.5	17.9	26	2	C51590
Title: US-10-088-417A-4		33	24.5	17.9	26	4	T07533
Perfect Score: 137	1 KIRALKWNAHLKQEIAALEQEIAALEQ	34	24	17.5	17	2	PC2319
Sequence: 1 KIRALKWNAHLKQEIAALEQEIAALEQ		35	24	17.5	19	2	S20274
Scoring table: BLOSUM62	Gapop 10.0 , Gapext 0.5	36	24	17.5	19	2	A44854
Searched: 283416 seqs, 96216763 residues		37	24	17.5	20	2	PC12440
Total number of hits satisfying chosen parameters: 5694		38	24	17.5	20	2	S74101
Minimum DB seq length: 0		39	24	17.5	24	2	T46628
Maximum DB seq length: 28		40	24	17.5	24	2	S33302
Post-processing: Minimum Match 0% Maximum Match 100%		41	24	17.5	25	2	B34461
Database : PIR 79:*		42	24	17.5	26	2	B55244
1: pir1:*		43	24	17.5	26	2	A55244
2: pir2:*		44	24	17.5	26	2	S66409
3: pir3:*		45	23	16.8	13	2	A86126
4: pir4:*							
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.							
SUMMARIES							
Result No.	Query	Score	Match	Length	DB	ID	Description
1	36	26.3	25	2	S39391		calpain II heavy c
2	32	23.4	23	2	S23518		stromelysin (EC 3.4.24.-) - dog (fragment)
3	31	22.6	16	2	E37290		stromelysin (Canis lupus familiaris (dog))
4	31	22.6	21	2	165270		C;Species: Canis lupus familiaris (dog)
5	30	21.9	22	2	A33272		C;Date: 19-Mar-1997 #sequence_revision 24-Jul-1997 #text_change 09-Jul-2004
6	29	21.2	24	2	A33262		R:Bayne, E.K.; Hutchinson, N.I.; Walkovits, L.A.; Donatelli, S.; Macnaul, K.L.; Harper, R;Matrix 12, 173-184, 1992
7	29	21.2	24	2	138253		C;Keywords: hydroase; metalloproteinase; zinc; zymogen
8	28.5	20.8	20	2	A33592		F;1-20/Domain: matrix metalloproteinase homology (fragment) <MMP>
9	28	20.4	19	2	S00495		Query Match 23.4%; Score 32; DB 2; Length 23;
10	28	20.4	24	2	C47689		A;Cross-references: UNIPROT:Q9TSC5
11	28	20.4	27	2	G61002		Best Local Similarity 45.5%; Pred. No. 4.9e+02;
12	27	19.7	21	2	A59325		Mismatches 5; Indels 0; Gaps 0;
13	26.5	19.3	27	2	PQ0844		Query 6 KWNHLKQEI 16
14	26	19.0	15	2	PA036		Db 8 KWNHLTYRI 18
15	26	19.0	19	2	PN0467		
16	26	19.0	20	2	B16236		
17	26	19.0	25	2	A47689		
18	25	18.2	10	2	A3405		
19	25	18.2	20	2	S35970		
20	25	18.2	21	2	S35978		
21	25	18.2	23	2	S35975		
22	25	18.2	23	2	S35976		
23	25	18.2	24	2	I46513		
24	25	18.2	25	2	JG4278		
25	25	18.2	25	2	JQ1617		
26	25	18.2	25	2	JC4685		
27	25	18.2	25	2	S38425		
28	25	18.2	25	2	T49214		
29	25	18.2	25	2	T06233		

RESULT 3	Qy 17 AALEQEITAAL 26 Db : 6 AALVKELAAL 15	
	C;Species: Mus musculus (house mouse) C;Accession: E37290; E38809 C;Date: 17-Jan-1992 #sequence_revision 17-Jan-1992 #text_change 16-Aug-2004 R;Singh, G.; Kaur, S.; Stock, J.L.; Jenkins, N.A.; Gilbert, D.J.; Copeland, N.G.; Potter, A.;Molecule type: DNA A;Title: Identification of 10 murine homeobox genes A;Reference number: A37290; MUID:1683707 A;Accession: E37290 A;Status: preliminary; not compared with conceptual translation A;Molecule type: DNA C;Superfamily: homeobox homology C;Keywords: DNA binding; homeobox; nucleus; transcription regulation F;1-14/Domain: homeobox homology (fragment) <Hox>	
	Query Match 22.6%; Score: 31; DB 2; Length 16; Best Local Similarity 50.0%; Pred. No. 4.6e+02; Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;	
Qy 3 RALKWNA 10 : : : : : Db 8 RRMKWRNS 15	Db 0;	
RESULT 4		
	I65270 165270 collagen alpha 1(I) chain - rat (fragment) C;Species: Rattus norvegicus (Norway rat) C;Accession: 165270 C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004 R;Genovese, C.; Rowe, D.; Kream, B. A;Title: Construction of DNA sequences complementary to rat alpha-1 and alpha-2 collagen A;Accession: 165270 A;Status: preliminary; translated from GB/EMBL/DBJ A;Molecule type: mRNA A;Residues: 1-21 <RES> A;Cross-references: UNIPROT:Q63076; GB:MI12200; NID:9203191; PID:AAA40835.1; PMID:9203195 C;Superfamily: collagen alpha 2(I) chain; fibrillar collagen carboxyl-terminal hemology	
	Query Match 22.6%; Score: 31; DB 2; Length 21; Best Local Similarity 50.0%; Pred. No. 6.1e+02; Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;	
Qy 11 HLKQEITAALQE 22 : : : : : : Db 8 HCKNSTAYLDEE 19	Db 0;	
RESULT 5		
	B35372 165270 unidentified low M-r protein - Yersinia pseudotuberculosis (fragment) C;Species: Yersinia pseudotuberculosis C;Accession: B35372 C;Date: 17-Aug-1990 #sequence_revision 17-Aug-1990 #text_change 09-Jul-2004 R;Han, O.; Miller, V.P.; Liu, H. J. Biol. Chem. 265, 8033-8041, 1990 A;Title: Mechanistic studies of the biosynthesis of 3,6-dideoxyhexoses in Yersinia pseudotuberculosis H:dichlorophenoxyindophenol oxidoreductase activity. A;Accession: B35372 A;Status: preliminary A;Molecule type: protein A;Residues: 1-22 <HAN> A;Cross-references: UNIPROT:Q7MON2	
	Query Match 21.9%; Score: 30; DB 2; Length 22; Best Local Similarity 70.0%; Pred. No. 8.7e+02; Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;	
Qy 17 AALEQEITAAL 26 : Db 6 AALVKELAAL 15	Db 0;	
RESULT 6		
	A33262 165270 heparin-binding growth factor A light chain - rabbit (fragment) C;Species: Oryctolagus cuniculus (domestic rabbit) C;Date: 21-Feb-1990 #sequence_revision 21-Feb-1990 #text_change 09-Jul-2004 R;Zarngar, R.; Muga, S.; Englund, J.; Michalopoulos, G. Biochem. Biophys. Res. Commun. 163, 1370-1376, 1989 A;Title: NH-2-terminal amino acid sequence of rabbit hepatopoietin A, a heparin-binding A;Reference number: A33262; MUID:89392048; PMID:2528955 A;Accession: A33262 A;Status: preliminary A;Molecule type: protein A;Residues: 1-24 <ZAR> A;Cross-references: UNIPROT:PI3571 C;Superfamily: hepatocyte growth factor/macrophage stimulating protein 1; kringle homolog C;Keywords: growth factor; heparin binding; kringle C;Genetics: Query Match 21.2%; Score: 29; DB 2; Length 24; Best Local Similarity 44.4%; Pred. No. 1.3e+03; Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;	
	Qy 4 ALWKWNAHL 12 : : : : : : Db 16 SUKYRNKHI 24	Db 0;
RESULT 7		
	I38253 165270 T-cell acute lymphocytic leukemia 1 protein - human (fragment) C;Species: Homo sapiens (man) C;Accession: I38253 C;Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 05-Nov-1999 R;Chen, Q.; Yang, C.Y.; Tsan, J.T.; Xia, Y.; Ragab, A.H.; Peiper, S.C.; Carroll, A.; Baier, J. Exp. Med. 172, 1403-1408, 1990 A;Title: Coding sequences of the tal-1 gene are disrupted by chromosome translocation in a T-cell acute lymphocytic leukemia cell line A;Reference number: I38253; MUID:9107802; PMID:220650 A;Accession: I38253 A;Status: preliminary; translated from GB/EMBL/DBJ A;Molecule type: DNA A;Residues: 1-24 <RES> A;Cross-references: EMBL:X58621; NID:936683; PID:CAA41476.1; PMID:936684 C;Genetics: A;Gene: GDB:TAL1; SCL; TCL5 A;Cross-references: GDB:120759; OMIM:187040 A;Map position: 1p32-1p32	
	Query Match 21.2%; Score: 29; DB 2; Length 24; Best Local Similarity 55.6%; Pred. No. 1.1e+03; Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;	
Qy 3 RALKWNAH 11 : : : : : Db 10 RASKWPHAY 18	Db 0;	
RESULT 8		
	A53572 165270 H+ Exporting ATPase (EC 3.6.3.6) 24k chain - Thermus aquaticus (fragment) C;Species: Thermus aquaticus C;Accession: A53572 C;Date: 01-Dec-1995 #sequence_revision 01-Dec-1995 #text_change 09-Jul-2004 R;Yokoyama, K.; Akabane, Y.; Ishii, N.; Yoshida, M. J. Biol. Chem. 269, 12248-12253, 1994 A;Title: Isolation of prokaryotic V-0/V-1-ATPase from a thermophilic eubacterium Thermus A;Reference number: A53592; MUID:94216345; PMID:8163530 A;Accession: A53592	

A; Status: preliminary
 A; Molecule type: protein
 A; Residues: 1-20 <YOK>
 C; Keywords: hydrolase

Query Match 20.8%; Score 28.5; DB 2; Length 20;
 Best Local Similarity 52.6%; Pred. No. 1.2e+03;
 Matches 10; Conservative 1; Mismatches 5; Indels 3; Gaps 1;
 A; Cross-references: UNIPROT:Q7M196

Qy 10 AHLKQEAIAALEQEAIAALEQ 28
 Db 5 ATLSQEV --BAEIQALIQ 20

RESULT 9

S00495 hemocyanin chain III - Japanese spiny lobster (fragment)
 C; Species: *Panulirus japonicus* (Japanese spiny lobster)
 C; Accession: S00495
 R; Makino, N.; Kimura, S.
 C; Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 09-Jul-2004
 Bur. J. Biochem. 173, 423-430, 1988

A; Title: Subunits of *Panulirus japonicus* hemocyanin. 1. Isolation and properties.
 A; Reference number: S00492; PMID:3360019

A; Accession: S00495

A; Molecule type: protein

A; Residues: 1-19 <MAX>

A; Cross-references: UNIPROT:PB2313

C; Superfamily: hemocyanin

C; Keywords: copper; hemolymph; hexamer; oxygen carrier

Query Match 20.4%; Score 28; DB 2; Length 19;
 Best Local Similarity 62.5%; Pred. No. 1.4e+03;
 Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 9 NAHLKQEI 16
 Db 7 NAHKQDQD 14

RESULT 10

C47689 flagellar core protein, 34K - *Treponema hyodysenteriae* (fragment)
 C; Species: *Treponema hyodysenteriae*
 C; Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004

R; Koopman, M.B.; Baats, E.; van Vorstenbosch, C.J.; van der Zeijst, B.A.; Kusters, J.G.

J. Gen. Microbiol. 138, 2697-2706, 1992

A; Title: The periplasmic flagellin of *Serpulina* (*Treponema*) *hyodysenteriae* are composed of

A; Reference number: A47689; PMID:93139765; PMID:1487733

A; Contents: C5, Treponema

A; Status: preliminary

A; Molecule type: protein

A; Residues: 1-24 (KOO>

A; Cross-references: UNIPROT:Q7M132

A; Note: sequence extracted from NCBI backbone (NCBIP:123402)
 C; Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 17-Mar-1999

Qy 3 RALKWQDAHLK 13
 Db 14 RTLKFRRNVDLR 24

RESULT 11

G61002 transformation-sensitive protein IEF-3613 - human (fragments)

C; Species: *Homo sapiens* (man)

C; Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-1994

RESULTS 14
 PA0036

C; Accession: G61002

R; Bauw, G.; Rasmussen, H.H.; Van Den Bulcke, M.; Van Damme, J.; Puype, M.; Geesber, B.; C; Electrophoresis 11, 528-536, 1990

A; Title: Two-dimensional gel electrophoresis, protein electroblotting and microsequenc

A; Reference number: A61002; PMID:91031404; PMID:1699755

A; Accession: G61002

A; Molecule type: protein

A; Residues: 1-27 <BAU>

A; Note: this material corresponds to transformed epithelial amnion cell (AMA) database F

Query Match 20.4%; Score 28; DB 2; Length 27;

Best Local Similarity 31.2%; Pred. No. 2e+03;

Matches 5; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

Qy 8 KNAHLKOBIAIALEQEI 23
 Db 6 KLAYINPDLLALEETL 21

RESULT 12

A59325 probable bacteriophage receptor BactA [imported] - *Bacteroides fragilis* (fragment)

C; Species: *Bacteroides fragilis*

C; Date: 28-Jul-2000 #sequence_revision 28-Jul-2000 #text_change 09-Jul-2004

C; Accession: A59325

R; Frias-Lopez, J.

submitted to the Protein Sequence Database, July 2000

A; Description: Identification of cell wall proteins of *Bacteroides fragilis* to which bac

A; Reference number: A59325

A; Status: preliminary

A; Molecule type: protein

A; Residues: 1-21 <FR1>

A; Cross-references: UNIPROT:Q7M123

A; Experimental source: strain ATCC 51477

A; Note: putative receptor for bacteriophage B40-8

Query Match 19.7%; Score 27; DB 2; Length 21;

Best Local Similarity 58.3%; Pred. No. 2.1e+03;

Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 15 BIAALDEBIAAL 26
 Db 8 EPAAHLDEMLAL 19

RESULT 13

PQ0844 DNA-binding protein AcBBP1 - *Azorhizobium caulinodans* (fragment)

C; Species: *Azorhizobium caulinodans*

C; Date: 03-May-1994 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004

C; Accession: PQ0844

R; Weelers, P.; Metz, B.; Felix, G.; Palme, K.; Szczegylowski, K.; de Brujin, F.J.

Plant Physiol. 102, 1095-1107, 1993

A; Title: Interaction of a rhizobial DNA-binding protein with the promoter region of a pl

A; Reference number: PQ0844; PMID:9105338; PMID:1699755

A; Accession: PQ0844

A; Molecule type: protein

A; Residues: 1-27 <WEL>

A; Cross-references: UNIPROT:Q7M1A8

A; Experimental source: strain ORS571

Query Match 19.3%; Score 26.5; DB 2; Length 27;

Best Local Similarity 30.4%; Pred. No. 3.1e+03;

Matches 7; Conservative 7; Mismatches 8; Indels 1; Gaps 1;

Qy 2 IRALKWRN-AHLKQEAIALEQEI 23
 Db 3 MRKLVGRNPARLQEKGLTQEDV 25

glycine cleavage system protein H1 and H2 - Arabidopsis thaliana (fragment)
 C;Species: Arabidopsis thaliana (mouse-ear cress)
 C;Date: 30-Jun-1992 #text_change 09-Jul-2004
 C;Accession: PA0036
 C;Accession: PA0036
 R;Kamo, M.; Kawakami, T.; Miyatake, N.; Tsugita, A.
 A;Submitted to: JIPID, July 1994
 A;Description: Separation and characterization of Arabidopsis proteins by two-dimensions
 A;Reference number: PA0001
 A;Accession: PA0036
 A;Molecule type: protein
 A;Residues: 1-15 <XMM>
 A;Cross-references: UNIPROT:Q7M1X0
 A;Experimental source: stem

```

SSSULT 15
0467
molybdenum-iron protein alpha chain - Azotobacter chroococcum
Species: Azotobacter chroococcum
Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
Accession: PN0467
; Jones, R.; Woodley, P.; Birkmann-Zinoni, A.; Robson, R. L.
; Title: The nifH gene encoding the Fe protein Component of the molybdenum nitrogenase
; Reference number: JN0516; MNUID:93138425; PMID:8423000
; Accession: PN0467
; Molecule type: DNA
; Residues: 1-19 <JON>
; Cross-references: UNIPROT:Q43964; GB:M73020; NID:gi142326; PID:g142326; PID:g289238
; Genetics:
; Gene: nifH
; superfamily: dinitrogenase alpha chain; nitrogenase vanadium-iron protein alpha chain
; Keywords: ATP; nitrogen fixation; oxido-reductase

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Query Match '19.0%'; Score 26; DB 2; Length 19;
Best Local Similarity 36.4%; Pred. No. 2.5e+03;
Matches 4; Conservative 5; Mismatches 2; Indels 0;
Gaps 0;
13 KQEIALEQEI 23
   ::|:|:|:|:
6 ::|:|:|:|:
  REVERSED 16

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Search completed: April 27, 2005, 15:07:13
Job time : 29.5 secs

SQ	SEQUENCE	16 AA;	2178 MW;	AEC306578EE24361 CRC64;	RL Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
	Query Match	22.6%;	Score 31;	DB 2;	Length 16;
	Best Local Similarity	50.0%;	Pred. No. 3.1e+03;		
	Matches 4;	Conservative 3;	Mismatches 1;	Indels 0;	Gaps 0;
Qy	3 RALKWNA 10				
Db	8 RANKWWRNS 15				
RESULT 7					
Q63076	PRELIMINARY;	PRT;	21 AA.		
ID Q63076					
AC Q63076					
DT 01-NOV-1996 (TREMBLrel. 01, Created)					
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)					
DB Alpha-2 type I collagen (Fragment).					
OS Rattus norvegicus (Rat).					
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.					
OX NCBI_TaxID:10116;					
RN [1]					
RP SEQUENCE FROM N.A.					
RC TISSUE=Petal calvaria;					
RX MEDLINE=85122694; PubMed=6395893;					
RA Genovese C.; Rowe D.; Kream B.;					
RT "Construction of DNA sequences complementary to rat alpha 1 and alpha 2 collagen mRNA and their use in studying the regulation of type I collagen synthesis by 1,25-dihydroxyvitamin D.";					
RL Biochem 23:6210-6216(1984)..					
DR EMBL: M12200; AAA40835.1; -.					
PIR: I65270; I65270.					
DR GO:0005581; C:collagen; IEA.					
DR GO:0005201; F:extracellular matrix structural constituent; IEA.					
DR InterPro: IPR000885; Fib_collagen_C.					
PFAM: PF0141; COLF1; 1.					
DR proDom; PDD02078; Fib collagen_C; 1.					
DR PIR; B35372; B35372.					
KW Collagen.					
FT NON_TER 1 1					
FT NON_TER 21 21					
SEQUENCE 21 AA;	2358 MW;	B86A68CCEE846D60 CRC64;			
Query Match	22.6%;	Score 31;	DB 2;	Length 21;	
Best Local Similarity	50.0%;	Pred. No. 4.2e+03;			
Matches 6;	Conservative 2;	Mismatches 4;	Indels 0;	Gaps 0;	
Qy 11 HLKQETAALEQE 22					
Db 8 HCKN5TAYLDEE 19					
RESULT 8					
Q9H002	PRELIMINARY;	PRT;	22 AA.		
ID Q9H002					
AC Q9H002					
DT 01-MAR-2001 (TREMBLrel. 16, Created)					
DT 01-OCT-2003 (TREMBLrel. 16, Last sequence update)					
DB ATP-binding cassette transporter-1 (Fragment).					
GN Name=ABC-1;					
OS Homo sapiens (Human).					
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
OX NCBI_TaxID:9606;					
RP SEQUENCE FROM N.A..					
RA Porsch-Oezcueruemez M.; Langmann T.; Schmitz G.;					
RL Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.					
[2]					
RP SEQUENCE FROM N.A..					
RA Porsch-Oezcueruemez M.K.;					
RESULT 9					
Q7M0N2	PRELIMINARY;	PRT;	22 AA.		
ID Q7M0N2					
AC Q7M0N2					
DT 01-MAR-2004 (TREMBLrel. 26, Created)					
DT 01-MAR-2004 (TREMBLrel. 26, Last sequence update)					
DB Unidentified low M-r protein (Fragment).					
OS Yersinia pseudotuberculosis.					
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales.					
OC Enterobacteriaceae; Yersinia.					
OX NCBI_TaxID:633;					
[1]					
RP SEQUENCE.					
RX MEDLINE=90243678; PubMed=2159466;					
RA Han O., Miller V.P., Liu H.;					
RT "Mechanistic studies of the biosynthesis of 3,6-di-deoxyhexoses in CDP-6-deoxy-d-glucosamine. Purification and characterization of CDP-6-deoxy-d-glucosamine dehydrogenase based on its NADH: dichlorophenolindophenol oxidoreductase activity.";					
RL J. Biol. Chem. 265:8033-8041(1990).					
DR PIR; B35372; B35372.					
FT NON_TER 22 22					
SEQUENCE 22 AA;	2192 MW;	B888CD8AAC8680BB CRC64;			
Query Match	21.9%;	Score 30;	DB 2;	Length 22;	
Best Local Similarity	70.0%;	Pred. No. 5.9e+03;			
Matches 7;	Conservative 2;	Mismatches 1;	Indels 0;	Gaps 0;	
Qy 17 AALEGQTAAL 26					
Db 6 AALVXSLAA 15					
RESULT 10					
Q9IN95	PRELIMINARY;	PRT;	28 AA.		
ID Q9IN95					
AC Q9IN95					
DT 01-OCT-2000 (TREMBLrel. 15, Created)					
DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)					
DB Gag protein (Fragment).					
RA Green S.D., Peutherford J.P., Simmonds P.;					
RA "Genetic heterogeneity of HIV type 1 subtypes in Kimpepe, rural Democratic Republic of Congo.";					
RL AIDS Res. Hum. Retroviruses 15:655-664 (1999).					
[2]					
RP SEQUENCE FROM N.A..					
RA Mokili J.L.K.;					

RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF144854; AAP65080.1; -.
 PT NON-TER 1 1
 SQ SEQUENCE 28 AA; 3322 MW; 76748DB3295BA9 CRC64;

Query Match 21.9%; Score 30; DB 2; Length 28;
 Best Local Similarity 66.7%; Pred. No. 7.6e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 2; Mismatches 0; Indels 0;

Qy 7 WNAHL 1.2
 ID :|:|:
 Db 2 WKDSHL 7

RESULT 11

Q6V4K8 PRELIMINARY; PRT; 28 AA.
 ID Q6V4K8; PRELIMINARY; PRT; 27 AA.
 AC Q6V4K8; PRELIMINARY; PRT; 27 AA.
 DT 05-JUL-2004 (TREMBLrel. 27, Created)
 DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
 DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)

Q6V4K8 PRELIMINARY; PRT; 27 AA.
 ID Q6V4K8; PRELIMINARY; PRT; 27 AA.
 AC Q6V4K8; PRELIMINARY; PRT; 27 AA.
 DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
 DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)

DB M protein (Fragment).

OS Streptococcus Pyogenes.

OC Bacteria; Firmicutes; Lactobacillales; Streptococcaceae;

OC Streptococcus.

OC EMBL_TaxID=1314;

RN [1] _SEQUENCE FROM N.A.

RP SEQUENCE FROM N.A.

RC STRAIN=NS616;

RX PubMed:14698117; DOI=10.1128/IAI.72.1.364-370.2004;

RA McKay P.C., McArthur J.D., Sanderson-Smith M.L., Gardam S.,

Chhatwal G.S., Ranson M., Walker M.J.,

RA "Plasmid-borne binding by group A streptococcal isolates from a region

of hyperendemicity for streptococcal skin infection and a high

RT incidence of invasive infection.";

RL Infect. Immun. 72:364-370(2004).

DR AY351858; AAQ64528.1; -.

FT NON-TER 1 1

PT NON-TER 28 28

SQ SEQUENCE 28 AA; 3463 MW; 013B1C94B01B96D CRC64;

Query Match 21.5%; Score 29.5; DB 2; Length 28;

Best Local Similarity 38.1%; Pred. No. 8.8e+03; Indels 3; Gaps 1;
 Matches 8; Conservative 6; Mismatches 6; Indels 3; Gaps 1;

Qy 7 WNAHLKQETIAALEQETIAALE 27

Db 1 WDRQRLEKE--LEEKKEALE 18

RESULT 12

Q50038 PRELIMINARY; PRT; 13 AA.

AC Q50038; PRELIMINARY; PRT; 13 AA.

DT 01-NOV-1996 (TREMBLrel. 01, Created)

DT 01-NOV-1996 (TREMBLrel. 01, Last sequence update)

DT 01-NOV-1996 (TREMBLrel. 01, Last annotation update)

DB U22661.

OS Mycobacterium leprae.

OC Bacteria; Actinobacteridae; Actinomycetales;

OC Corynebacteriaceae; Mycobacterium.

OC Corynebacteriaceae; Mycobacterium.

OC NCBI_TaxID=1769;

RN [1] _SEQUENCE FROM N.A.

RP SEQUENCE FROM N.A.

RA Smith D.R.;

RL Submitted (APR-1995) to the EMBL/GenBank/DBJ databases.

RN [2] _SEQUENCE FROM N.A.

RA Robison K.;

RL Submitted (SEP-1994) to the EMBL/GenBank/DBJ databases.

DR U15182; AAB62970.1; -.

SQ SEQUENCE 13 AA; 1589 MW; C7CCD7B47D025B06 CRC64;

Query Match 21.2%; Score 29; DB 2; Length 13;
 Best Local Similarity 45.5%; Pred. No. 4.6e+03; Indels 0; Gaps 0;

Matches 5; Conservative 3; Mismatches 3; Indels 0;

Qy 11 HLKQETIAALEQ 21

Db 3 HVQQETLGVEQ 13

RESULT 13

Q6V106 PRELIMINARY; PRT; 23 AA.

AC Q6V106; PRELIMINARY; PRT; 23 AA.

DT 05-JUL-2004 (TREMBLrel. 27, Created)

DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)

DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)

AC Name-Hol;

OS Mus spretus (Western wild mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Murinae; Muridae;

OC NCBI_TaxID=10096;

RN [1] _SEQUENCE FROM N.A.

RP SEQUENCE FROM N.A.

RC Cabrerizo-Lujue J.M., Prieto-Alamo M.J., Pueyo C.;

RA Submitted [JUN-2003] to the EMBL/GenBank/DBJ databases.

RL Submitted [JUN-2003] to the EMBL/GenBank/DBJ databases.

DR AY351454; AAQ55831.1; -.

FT NON-TER 1

FT NON-TER 23 23

SQ SEQUENCE 23 AA; 2852 MW; F8D0C3F6975C5900 CRC64;

Query Match 21.2%; Score 29; DB 2; Length 23;
 Best Local Similarity 75.0%; Pred. No. 8.3e+03; Indels 0; Gaps 0;

Matches 6; Conservative 2; Mismatches 0; Indels 0;

Qy 17 AALEQETIA 24

Db 4 AALEQDMA 11

RESULT 14

HPTA_RABBIT STANDARD; PRT; 24 AA.

ID HPTA_RABBIT STANDARD; PRT; 24 AA.

AC P13571;

RP SEQUENCE [1] _HPTA_RABBIT STANDARD; PRT; 24 AA.

DR MEDLINE=89392048; PubMed=2528955;

RX Zarnegar R., Muga S., Enghild J., Michalopoulos G.;

DT 01-JAN-1990 (Rel. 13, Created)

DT 01-JAN-1990 (Rel. 13, Last sequence update)

DT 05-JUL-2004 (Rel. 44, Last annotation update)

DT Heptapeptid polypeptide growth factor for hepatocytes.;

DB Heptapeptid polypeptide growth factor for hepatocytes.;

OS Oryctolagus cuniculus (Rabbit).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagidae.

OC NCBI_TaxID=9986;

RN [1] _SEQUENCE FROM N.A.

RP SEQUENCE FROM N.A.

DR A33262; A33262.

KW Direct protein sequencing; Growth factor; Heparin-binding.

FT NON-TER 24 24

SQ SEQUENCE 24 AA; 2768 MW; E78BBF9BB07262FE CRC64;

Query Match 21.2%; Score 29; DB 1; Length 24;
 Best Local Similarity 44.4%; Pred. No. 8.7e+03; Indels 0; Gaps 0;

Matches 4; Conservative 4; Mismatches 4; Indels 0;

Qy 4 ALKWKNAHL 12
 Db 16 SILKYRNRH 24

RESULT 15
 Q6BDL1; PRELIMINARY; PRT; 26 AA.
 AC Q6BDL1;
 DT 25-OCT-2004 (TRIMBLref); 28; Created
 DT 25-OCT-2004 (TRIMBLref); 28; Last sequence update
 DT 25-OCT-2004 (TRIMBLref); 28; Last annotation update
 DB Hypothetical protein (Fragment).
 OS Tricholoma matsutake.
 OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Homobasidiomycetes;
 OC Agaricales; Tricholomataceae; Tricholoma.
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Murata H.;
 RT "Characterization of the insertion sites of marYL, the GYPSY-type
 retrotransposon from the ectomycorrhizal basidiomycete Tricholoma
 matsutake strain Y1, in the genome the fungus based on the inter-
 retrotransposon amplified polymorphism analysis."
 RL Submitted (JAN-2004) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: Nuclear (By similarity).
 DR EMBL:AB160891; BAD12667.1;
 DR GO; GO:0000785; C:chromatin; IEA.
 DR GO; GO:0005634; C:nucleus; IEA.
 DR GO; GO:003682; F:chromatin binding; IEA.
 DR GO; GO:0006333; P:chromatin assembly or disassembly; IEA.
 DR InterPro:IPR000953; Chromo.
 DR Pfam:PF00385; Chromo; 1.
 DR PROSITE:PS00538; CHROMO_1; UNKNOWN_1.
 DR PROSITE:PS50013; CHROMO_2; 1.
 KW Hypothetical protein; Nuclear protein.
 FT NON-TER 1 1
 FT NON-TER 26 26
 SQ SEQUENCE 26 AA; 3272 MW; 3E4B000853591617 CRC64;
 Query Match 21.2%; Score 29; DB 2; Length 26;
 Best Local Similarity 80.0%; Pred. No. 9.4e+03;
 Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 5 LKWN 9
 Db 7 IKWN 11

Search completed: April 27, 2005, 15:06:18
 Job time : 114 secs

BEST AVAILABLE COPY

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Page 2

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; LENGTH: 27 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: both
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-07-634-965-9

Query Match 32.8%
Best Local Similarity 42.9%
Matches 9; Conservative

QY 1 KIRALKWNAHLKQEIR
Db 4 KVBELLSKNYTHLEENVP

RESULT 4
US-09-252-658-9
; Sequence 9, Application US/09-252-658-9
; Patent No. 6251667
; GENERAL INFORMATION:
; APPLICANT: HABENIER, JOEL
; TITLE OF INVENTION: A CAN
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; STREET: 1100 NEW YORK AV
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Patent Invention Assistant
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US
; FILING DATE: 22-MAY-19
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PC
; FILING DATE: 20-NOV-19
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US
; FILING DATE: 18-NOV-19
; ATTORNEY/AGENT INFORMATION:
; NAME: Cimbala, Michele
; REFERENCE/DOCKET NUMBER: 3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)371-26
; TELEFAX: (202)371-2540
; INFORMATION FOR SEQ ID NO:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 amino acids
; TYPE: amino acid
; STRANDEDNESS: both
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-252-658-9

Query Match 32.8%
Best Local Similarity 42.9%
Matches 9; Conservative

QY 1 KIRALKWNAHLKQEIR

```

Db 4 KVABELSKNYHLENEVARLKK 24

RESULT 5

US-08-486-039-84

Sequence 84, Application US/08486099

Patent No. 6013263

GENERAL INFORMATION:

APPLICANT: Bolocenesi, Dani P.

APPLICANT: Matthews, Thomas J.

APPLICANT: Wild, Carl T.

APPLICANT: Barney, Shawn O.

APPLICANT: Lambert, Dennis M.

APPLICANT: Petteway, Stephen R.

APPLICANT: Langlois, Alphonse J.

TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF

TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS

NUMBER OF SEQUENCES: 209

CORRESPONDENCE ADDRESS:

ADDRESSEES: Pennie & Edmonds

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/360,107A

FILING DATE: 20-DEC-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Coruzzi, Laura A.

REGISTRATION NUMBER: 30,742

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 869-9090

TELEFAX: (212) 869-9711/8864

TELEFAX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 94:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: Peptide

US-08-360-107A-94

RESULT 7

US-08-484-223B-84

Sequence 84, Application US/08484223B

GENERAL INFORMATION:

APPLICANT: Bolocenesi, Dani P.

APPLICANT: Matthews, Thomas J.

APPLICANT: Wild, Carl T.

APPLICANT: Barney, Shawn O.

APPLICANT: Lambert, Dennis M.

APPLICANT: Petteway, Stephen R.

APPLICANT: Langlois, Alphonse J.

TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF

TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV

NUMBER OF SEQUENCES: 245

CORRESPONDENCE ADDRESS:

ADDRESSEES: Pennie & Edmonds LLP

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

Db

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV

NUMBER OF SEQUENCES: 149

GENERAL INFORMATION:

APPLICANT: Bolocenesi, Dani P.

APPLICANT: Matthews, Thomas J.

APPLICANT: Wild, Carl T.

APPLICANT: Barney, Shawn O.

APPLICANT: Lambert, Dennis M.

APPLICANT: Petteway, Stephen R.

APPLICANT: Langlois, Alphonse J.

TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV

NUMBER OF SEQUENCES: 209

CORRESPONDENCE ADDRESS:

ADDRESSEES: Pennie & Edmonds

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/360,107A

FILING DATE: 20-DEC-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Coruzzi, Laura A.

REGISTRATION NUMBER: 30,742

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 869-9090

TELEFAX: (212) 869-9741/8864

TELEFAX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 94:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: Peptide

US-08-486-039-84

Query Match

Best Local Similarity

Matches

Score 45;

DB 3;

Length 28;

Indels

0;

Gaps

0;

GapS

0;

Matches

5;

Mismatches

7;

Indels

0;

Gaps

0;

GapS

0;

Qy

1 KIRALKWNAHILKQIAALEQ 21

| : | | | : | : | : | : | : |

Db

7 KVABELSKNYHLENEVARLKK 27

Query Match

Best Local Similarity

Matches

Score 42.9%;

DB 3;

Length 28;

Indels

0;

Gaps

0;

GapS

0;

Qy

1 KIRALKWNAHILKQIAALEQ 21

| : | | | : | : | : | : |

Db

7 KVABELSKNYHLENEVARLKK 27

Query Match

Best Local Similarity

Matches

Score 42.9%;

DB 3;

Length 28;

Indels

0;

Gaps

0;

GapS

0;

Qy

1 KIRALKWNAHILKQIAALEQ 21

| : | | | : | : | : | : |

Db

7 KVABELSKNYHLENEVARLKK 27

SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US 08/484,223B
 FILING DATE: 07-JUN-1995

CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.

REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-029

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 869-9741/8864

TELEFAX: (212) 869-9090
 TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid

STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: Peptide

US-08-484-223B-84
 Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0;
 Gaps 0;

Qy 1 KIRALKWNAHILQEIAALEQ 21

Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 8
 US-08-919-597-84
 Sequence 84, Application US/08919597
 Patent No. 6054265
 GENERAL INFORMATION:
 APPLICANT: Bolognesi, Dani P.
 APPLICANT: Matthews, Thomas J.
 APPLICANT: Wild, Carl T.
 APPLICANT: Barney, Shawn O.
 APPLICANT: Lambert, Dennis M.
 APPLICANT: Petteway, Stephen R.
 APPLICANT: Langlois, Alphonse J.
 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV
 TITLE OF INVENTION: TRANSMISSION
 NUMBER OF SEQUENCES: 273
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Pennie & Edmonds
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10036-2711

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/475,668A
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-026
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 869-9090
 TELEFAX: (212) 869-9741/8864
 TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid

STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: Peptide

US-08-475-668A-84
 Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0;
 Gaps 0;

Qy 1 KIRALKWNAHILQEIAALEQ 21

Db 7 KVEELLSKNYHLENEVARLKK 27

TELEFAX: 66141 PENNIE
 INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid

STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: peptide

US-08-919-597-84
 Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0;
 Gaps 0;

Qy 1 KIRALKWNAHILQEIAALEQ 21

Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 9
 US-08-475-668A-84
 Sequence 84, Application US/08475668A
 Patent No. 6060055
 GENERAL INFORMATION:
 APPLICANT: Barney, Shawn O.
 APPLICANT: Lambert, Dennis M.
 APPLICANT: Petteway, Stephen R.
 TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF MEMBRANE
 TITLE OF INVENTION: FUSION-ASSOCIATED EVENTS, INCLUDING INFLUENZA VIRUS
 TITLE OF INVENTION: TRANSMISSION
 NUMBER OF SEQUENCES: 211

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds LLP
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10036-2711
 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/475,668A
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-026
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 869-9090
 TELEFAX: (212) 869-9741/8864
 TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid

STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: peptide

US-08-475-668A-84
 Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0;
 Gaps 0;

Qy 1 KIRALKWNAHILQEIAALEQ 21

Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 10
US-08-485-551A-84
| Sequence 84, Application US/08485551A
| Parent No. 6068973
GENERAL INFORMATION:
| APPLICANT: Bolognesi, Dani P.
| APPLICANT: Matthews, Thomas J.
| APPLICANT: Wild, Carl T.
| APPLICANT: Barney, Shawn O.
| APPLICANT: Lambert, Dennis M.
| APPLICANT: Petteway, Alphonse R.
| APPLICANT: Langlois, Alphonse J.
TITLE OF INVENTION: METHODS FOR INHIBITION OF MEMBRANE
TITLE OF INVENTION: FUSION-ASSOCIATED EVENTS, INCLUDING INFLUENZA VIRUS
NUMBER OF SEQUENCES: 211
CURRENT APPLICATION NUMBER: US/08/485,551A
CORRESPONDENCE ADDRESS:
ADDRESSEES: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,913A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7872-030
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-3090
TELEFAX: (212) 869-9741/8864
TELELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 84:
SEQUENCE CHARACTERISTICS:
SEQUENCE: 28 amino acids
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: Unknown
MOLECULE TYPE: peptide
US-08-471-913A-84

Query Match 32.8%; Score 45; DB 3; Length 28;
Best Local Similarity 42.9%; Pred. No. 15;
Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 1 KIRALKWNKAHLKQEIAALEQ 21
Db 7 KVBELLSSKYNHLENEVARLKK 27

RESULT 12
US-08-485-264A-84
Sequence 84, Application US/08485264A
Patent No. 622993
GENERAL INFORMATION:
APPLICANT: Bolognesi, Dani P.
APPLICANT: Matthews, Thomas J.
APPLICANT: Wild, Carl T.
APPLICANT: Barney, Shawn O.
APPLICANT: Lambert, Dennis M.
APPLICANT: Petteway, Stephen R.
APPLICANT: Langlois, Alphonse J.
TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF
TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING
TITLE OF INVENTION: RESPIRATORY SYNCYTIAL VIRUS TRANSMISSION
NUMBER OF SEQUENCES: 232
CORRESPONDENCE ADDRESS:
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,264A

RESULT 11
US-08-471-913A-84
| Sequence 84, Application US/08471913A
| Parent No. 6093794
GENERAL INFORMATION:
| APPLICANT: Bolognesi, Dani P.
| APPLICANT: Matthews, Thomas J.
| APPLICANT: Wild, Carl T.
| APPLICANT: Barney, Shawn O.
| APPLICANT: Lambert, Dennis M.
| APPLICANT: Petteway, Stephen R.
| APPLICANT: Langlois, Alphonse J.
TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF MEMBRANE
TITLE OF INVENTION: FUSION-ASSOCIATED EVENTS, INCLUDING EPSTEIN-BARR VIRUS
TITLE OF INVENTION: TRANSMISSION

FILING DATE: 07-JUN-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-021
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 790-9090
 TELEX: 66141 PENNIE
 INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: Peptide

US-08-485-264A-84

Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 1 KIRALKWNAHLKQIAALEQ 21
Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 14
US-08-255-208A-20

Sequence 20, Application US/08255208A
 Patent No. 644056
 GENERAL INFORMATION:
 APPLICANT: Bolognesi, Dani P.
 APPLICANT: Matthews, Thomas J.
 APPLICANT: Wild, Carl T.
 APPLICANT: Barnay, Shawn O.
 APPLICANT: Lambert, Dennis M.
 APPLICANT: Petteway Jr., Stephen R.
 TITLE OF INVENTION: SYNTHETIC PEPTIDE INHIBITORS OF HIV
 TITLE OF INVENTION: SYNTHETIC PEPTIDE INHIBITORS OF HIV
 NUMBER OF SEQUENCES: 111
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Pennie & Edmonds LLP
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10036

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/255,208A
 FILING DATE: 07-JUN-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-010
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 790-9090
 TELEFAX: (212) 869-9741/8864
 TELEX: 66141 PENNIE

US-08-255-208A-20

INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid
 TOPOLGY: unknown
 MOLECULE TYPE: Peptide

RESULT 15
US-08-470-896-84

Sequence 84, Application US/08470896
 Patent No. 6479055
 GENERAL INFORMATION:

APPLICANT: Bolognesi, Dani P.
 APPLICANT: Matthews, Thomas J.
 APPLICANT: Wild, Carl T.
 APPLICANT: Barney, Shawn O.
 APPLICANT: Lambert, Dennis M.
 APPLICANT: Petteway, Stephen R.
 APPLICANT: Langlois, Alphonse J.
 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION
 NUMBER OF SEQUENCES: 273
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Penning & Edmonds
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10036-2711
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/470,896
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30-742
 REFERENCE/DOCKET NUMBER: 7872-020
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 790-9090
 TELEFAX: (212) 869-9741/8864
 TELEX: 66141 PENNIE
 INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: peptide
 US-08-470-896-84

Query Match 32.8%; Score 45; DB 4; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;
 Qy 1 KIRALKWKNNAHLKQETAALEQ 21
 Db 7 KVEBLLSRNYHLENEVARLKK 27

Search completed: April 27, 2005, 15:19:43
 Job time : 30.5 secs

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OM protein - protein search, using bw model

Run on: April 27, 2005, 15:02:43 ; Search time 89.5 Seconds

(without alignments)
104.113 Million cell updates/sec

Title: US-10-088-417a-4

Perfect score: 137

Sequence: 1 KIRALKWNAHLKQEIAALEQEIAALEQ 28

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1424015 seqs, 332791073 residues

Total number of hits satisfying chosen parameters: 334731

Minimum DB seq length: 0

Maximum DB seq length: 28

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Match	Length	DB ID	Description
1	81	59.1	28	14 US-10-160-053-23	Sequence 23, APP1
2	59	43.1	28	14 US-10-160-053-21	Sequence 21, APP1
3	54	39.4	28	14 US-10-360-053-22	Sequence 22, APP1
4	51	37.2	24	14 US-10-338-083-19	Sequence 19, APP1
5	51	37.2	24	16 US-10-611-399-19	Sequence 19, APP1
6	51	37.2	24	17 US-10-745-751-19	Sequence 19, APP1
7	50	36.5	23	10 US-09-239-658-59	Sequence 59, APP1
8	47	34.3	21	13 US-09-834-759-534	Sequence 534, APP
9	47	34.3	21	13 US-10-007-803-534	Sequence 534, APP
10	47	34.3	21	13 US-10-007-803-587	Sequence 534, APP
11	47	34.3	21	14 US-10-076-622-534	Sequence 587, APP
12	47	34.3	21	14 US-10-076-622-587	Sequence 587, APP
13	47	34.3	21	14 US-10-124-805-534	Sequence 534, APP

RESULT 2

14	47	34.3	21	14 US-10-124-805-587	Sequence 587, APP
15	45	32.8	28	14 US-10-130-946-8	Sequence 1, APP1
16	45	32.8	28	14 US-10-080-608A-1	Sequence 90, APP1
17	45	32.8	28	15 US-10-370-685-90	Sequence 84, APP1
18	45	32.8	28	15 US-10-167-682-84	Sequence 84, APP1
19	45	32.8	28	15 US-10-267-748-84	Sequence 30, APP1
20	44	32.1	24	10 US-09-491-614-30	Sequence 6, APP1
21	43	31.4	20	14 US-10-016-622-596	Sequence 596, APP1
22	43	31.4	20	14 US-10-124-805-596	Sequence 37, APP1
23	42	30.7	26	14 US-10-059-720-37	Sequence 7, APP1
24	41	29.9	27	14 US-10-082-774-7	Sequence 111, APP1
25	39	28.5	28	9 US-09-320-907B-6	Sequence 6, APP1
26	39	28.5	28	15 US-10-047-232-6	Sequence 2, APP1
27	39	28.5	25	14 US-10-059-720-2	Sequence 20, APP1
28	38	27.7	26	14 US-10-059-720-3	Sequence 3, APP1
29	38	27.7	26	14 US-10-023-066A-70	Sequence 70, APP1
30	38	27.7	28	14 US-10-004-678-70	Sequence 70, APP1
31	38	27.7	28	14 US-10-059-720-36	Sequence 36, APP1
32	36	26.3	19	14 US-10-023-066A-40	Sequence 1, APP1
33	36	26.3	24	14 US-10-059-720-1	Sequence 20, APP1
34	36	26.3	24	14 US-10-338-063-20	Sequence 20, APP1
35	36	26.3	24	16 US-10-611-399-20	Sequence 20, APP1
36	36	26.3	24	17 US-10-794-751-20	Sequence 36, APP1
37	36	26.3	28	14 US-10-023-066A-36	Sequence 40, APP1
38	36	26.3	28	14 US-10-023-066A-40	Sequence 56, APP1
39	36	26.3	28	14 US-10-023-066A-56	Sequence 67, APP1
40	36	26.3	28	16 US-10-804-578-36	Sequence 36, APP1
41	36	26.3	28	16 US-10-804-578-40	Sequence 46, APP1
42	36	26.3	28	16 US-10-004-678-56	Sequence 54, APP1
43	36	26.3	28	16 US-10-804-578-67	Sequence 67, APP1
44	36	26.3	20	14 US-10-225-567A-1341	Sequence 1341, APP1

ALIGNMENTS

RESULT 1	US-10-360-053-23	Sequence 23, Application US-10360053
		Publication No. US20030170230A1
		GENERAL INFORMATION:
		APPLICANT: Cater, Nigel
		APPLICANT: Utenthal, Lars O
		APPLICANT: Nielsen, Rasmus W
		TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antipeptides via Antiparallel Heterogeneous Coiled-Coil Peptide Region
		TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antipeptides via Antiparallel Heterogeneous Coiled-Coil Peptide Region
		FILE REFERENCE: IMX-0028
		CURRENT APPLICATION NUMBER: US10/360,053
		CURRENT FILING DATE: 2003-02-05
		PRIOR APPLICATION NUMBER: US60/354,376
		PRIOR FILING DATE: 2002-02-05
		NUMBER OF SEQ ID NOS: 29
		SEQUENCE ID NO: 23
		LENGTH: 28
		TYPE: PRT
		ORGANISM: Artificial sequence
		FEATURE: OTHER INFORMATION: Synthetic
		US-10-360-053-23

Qy	4 ALKWKNAHLKQIAIALEQFQIAIALEQ 28
Db	1 AIKYKQAIKNEIAIAKQEIIAIEQ 25

APPLICANT: Desjarlais, John R.
 APPLICANT: Thomson, Adam Read
 APPLICANT: Zhukovsky, Eugene Alexander
 TITLE OF INVENTION: BAFF VARIANT AND METHODS THEREOF
 FILE REFERENCE: A-72175-1
 CURRENT APPLICATION NUMBER: US/10/794,751
 CURRENT FILING DATE: 2004-03-05
 PRIOR APPLICATION NUMBER: US 10/338,083
 PRIOR FILING DATE: 2003-01-16
 PRIOR APPLICATION NUMBER: US 60/452,707
 PRIOR FILING DATE: 2003-03-07
 PRIOR APPLICATION NUMBER: US 60/482,081
 PRIOR FILING DATE: 2003-06-23
 PRIOR APPLICATION NUMBER: US 60/523,880
 PRIOR FILING DATE: 2003-11-20
 PRIOR APPLICATION NUMBER: US 60/528,104
 PRIOR FILING DATE: 2003-12-08
 NUMBER OF SEQ ID NOS: 23
 SEQ ID NO: 19
 LENGTH: 24
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE: coiled-coil motif
 OTHER INFORMATION: PatentIn version 3.3
 US-10-794-751-19

Query Match 10 AHLKQETAALQEETAALE 27
 Best Local Similarity 37.2%; Score 51; DB 17; Length 24;
 Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;
 Db 1 AALESEVSALESEVSASLE 18

RESULT 7
 US-10-259-658-59
 Sequence 59, Application US/09259658
 Publication No. US2003032054A1
 GENERAL INFORMATION:
 APPLICANT: Colyer
 APPLICANT: Colyer
 APPLICANT: Craig
 APPLICANT: Maschio
 APPLICANT: Mezna
 TITLE OF INVENTION: Compositions And Methods For Monitoring The
 FILE REFERENCE: Colyer 425679245
 CURRENT APPLICATION NUMBER: US/09/259,658
 CURRENT FILING DATE: 1999-02-26
 NUMBER OF SEQ ID NOS: 59
 SEQ ID NO: 59
 LENGTH: 23
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 peptide used to assay geranylgeranyl transferase activity
 OTHER INFORMATION:
 US-09-259-658-59

Query Match 2 IRALKWNAHLKQETAALEQEETAA 24
 Best Local Similarity 56.5%; Score 50; DB 10; Length 23;
 Matches 13; Conservative 3; Mismatches 7; Indels 0; Gaps 0;
 Db 1 IAIQKQIAQQLQKNAQCKQKIA 23

RESULT 8
 US-09-834-759-534
 Sequence 534, Application US/09834759
 Publication No. US20020085998A1
 GENERAL INFORMATION:
 APPLICANT: Jiang, Yugu
 APPLICANT: Dillon, Davin C.
 APPLICANT: Mitcham, Jennifer L.
 APPLICANT: Xu, Jiangchun
 APPLICANT: Harlocker, Susan L.
 APPLICANT: Hepler, William T.
 APPLICANT: Henderson, Robert A.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 FILE REFERENCE: 210121-470C9
 CURRENT APPLICATION NUMBER: US/09/834,759
 CURRENT FILING DATE: 2001-04-13
 NUMBER OF SEQ ID NOS: 547
 SEQ ID NO: 534
 SOFTWARE: FastSEQ for Windows Version 3.0
 LENGTH: 21
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-834-759-534

Query Match 9 NAHLKQETAALEQEETAALE 27
 Best Local Similarity 34.3%; Score 47; DB 9; Length 21;
 Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
 Db 1 NCMLKKEIAMLKLEATLK 19

RESULT 9
 US-10-007-805-534
 Sequence 534, Application US/10007805
 Publication No. US2002150581A1
 GENERAL INFORMATION:
 APPLICANT: Jiang, Yugu
 APPLICANT: Dillon, Davin C.
 APPLICANT: Mitcham, Jennifer L.
 APPLICANT: Xu, Jiangchun
 APPLICANT: Harlocker, Susan L.
 APPLICANT: Hepler, William T.
 APPLICANT: Henderson, Robert A.
 APPLICANT: Panger, Gary R.
 APPLICANT: Vediwick, Thomas S.
 APPLICANT: McNeill, Patricia D.
 APPLICANT: Durham, Margarita
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 FILE REFERENCE: 210121-470C10
 CURRENT APPLICATION NUMBER: US/10/007,805
 CURRENT FILING DATE: 2001-12-07
 NUMBER OF SEQ ID NOS: 593
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 534
 LENGTH: 21
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-007-805-534

Query Match 9 NAHLKQETAALEQEETAALE 27
 Best Local Similarity 34.3%; Score 47; DB 13; Length 21;
 Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
 Db 1 NCMLKKEIAMLKLEATLK 19

RESULT 10
 US-10-007-805-587
 Sequence 587, Application US/10007805

```

Publication No. US2002150581A1
GENERAL INFORMATION:
APPLICANT: Jiang, Yugu
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jianghun
APPLICANT: Harlocker, Susan L.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Fangar, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: McNeill, Patricia D.
APPLICANT: Durham, Margarita
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C10
CURRENT APPLICATION NUMBER: US/10/007,805
CURRENT FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 593
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 587
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-007-805-587

Query Match Score 47; DB 13; Length 21;
Best Local Similarity 57.9%; Bred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 8
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Fangar, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: McNeill, Patricia D.
APPLICANT: Durham, Margarita
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C10
CURRENT APPLICATION NUMBER: US/10/007,805
CURRENT FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 593
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 587
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-007-805-587

RESULT 11
US-10-076-622-534
Sequence 534, Application US/10076622
Publication No. US20030023036A1
GENERAL INFORMATION:
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C11
CURRENT APPLICATION NUMBER: US/10/076,622
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 534
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-076-622-534

Query Match Score 47; DB 14; Length 21;
Best Local Similarity 57.9%; Bred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 8
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Persing, David H.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Fangar, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: McNeill, Patricia D.
APPLICANT: Durham, Margarita
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C11
CURRENT APPLICATION NUMBER: US/10/076,622
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 534
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-076-622-534

RESULT 12
US-10-076-622-587
Sequence 587, Application US/10076622
Publication No. US20030023036A1
GENERAL INFORMATION:
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Persing, David H.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Fangar, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: McNeill, Patricia D.
APPLICANT: Durham, Margarita
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C11
CURRENT APPLICATION NUMBER: US/10/076,622
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 587
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-076-622-587

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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C11
CURRENT APPLICATION NUMBER: US10/076,622
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 587
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-076-622-587

RESULT 13
Query Match 34.3%; Score 47; DB 14; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 5
Qy 9 NAHJKQEIALEQEAAL 27
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Db 1 NCMLKKEIAMKLKETATLK 19

RESULT 13
US-10-124-805-534
Sequence 534, Application US/10124805
Publication No. US20030166022A1
GENERAL INFORMATION:
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.470C12
CURRENT APPLICATION NUMBER: US10/124,805
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 534
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-124-805-534

RESULT 14
Query Match 34.3%; Score 47; DB 14; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 5
Qy 9 NAHJKQEIALEQEAAL 27
      | : | | : | | : | | : |
Db 1 NCMLKKEIAMKLKETATLK 19

RESULT 14
US-10-124-805-587
Sequence 587, Application US/10124805
Publication No. US20030166022A1
GENERAL INFORMATION:
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.470C12
CURRENT APPLICATION NUMBER: US10/124,805
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 587
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-10-124-805-587

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Query Match 34.3%; Score 47; DB 14; Length 21;
 Best Local Similarity 57.9%; Pred. No. 20;
 Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
 Qy 9 NAHLKQETAALEQETAALE 27
 |:|||:|||:|||:
 Db 1 NCMLKETAALEMLKLEIAATLK 19

RESULT 15
 US-10-630-926-8
 Sequence 8, Application US/10630926
 Publication No. US20040194160A1
 GENERAL INFORMATION:
 APPLICANT: RICCARDI, Carlo
 TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
 DEATH PATHWAYS
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: BROWDY AND NEIMARK, P. L. L. C.
 STREET: 624 Ninth Street, N.W., Suite 300
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20001
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/630,926
 FILING DATE: 31-JUL-2003
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/403,861A
 FILING DATE: 11-FEB-2000
 APPLICATION NUMBER: PCT/EP98/02490
 FILING DATE: 27-APR-1998
 APPLICATION NUMBER: EP 97107033.9
 FILING DATE: 28-APR-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: YUN, Allen C.
 REGISTRATION NUMBER: 37,971
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-628-5197
 TELEFAX: 202-737-3528
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 26 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 US-10-630-926-8

Query Match 32.8%; Score 45; DB 16; Length 26;
 Best Local Similarity 42.9%; Pred. No. 46;
 Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;
 Qy 1 KIRALKWNAHLKQETAALEQ 21
 4 KVBELLSKNTYHNEVARLKK 24

Search completed: April 27, 2005, 15:22:48
 Job time : 90.5 secs

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